

Anti-MEF2A + MEF2C antibody [EPR19089-34] ab197070

KO 評価済 リコンビナント RabMAb

★★★★★ **2 Abreviews** **10 References** 画像数 18

製品の概要

製品名	Anti-MEF2A + MEF2C antibody [EPR19089-34]
製品の詳細	Rabbit monoclonal [EPR19089-34] to MEF2A + MEF2C
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB, IHC-P, ICC/IF
種交差性	交差種: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Raji, Ramos, Daudi, C6 and RAW 264.7 whole cell lysates; Mouse cerebral cortex and brain lysates; Rat cerebral cortex, brain and spleen lysates; Wild-type THP-1 and Daudi cell lysates. IHC-P: Human tonsil and colonic adenocarcinoma tissues; Mouse spleen and colon tissues; Rat spleen tissue. ICC/IF: K562 and Raji cells.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol, 0.05% BSA</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR19089-34

アイソタイプIgG

アプリケーション

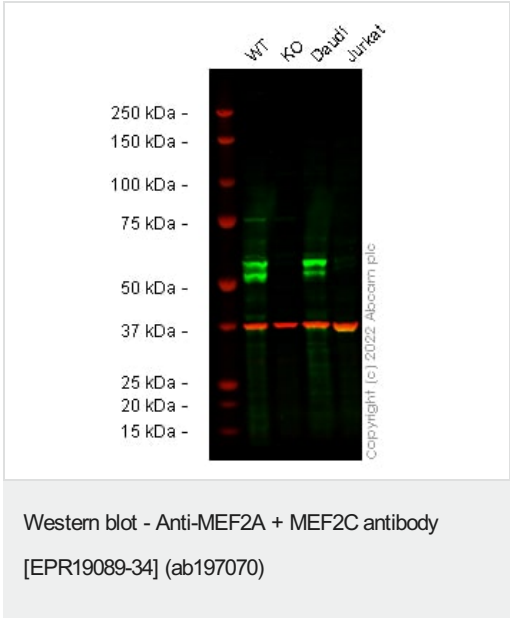
The Abpromise guarantee **Abpromise保証は、**次のテスト済みアプリケーションにおけるab197070の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/30.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 50-60 kDa (predicted molecular weight: 51 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/250.

ターゲット情報

細胞内局在MEF2A: Nucleus. MEF2C: Nucleus.

画像



All lanes : Anti-MEF2A + MEF2C antibody [EPR19089-34]
(ab197070) at 1/1000 dilution

- Lane 1 :** Wild-type THP-1 cell lysate
- Lane 2 :** MEF2C knockout THP-1 cell lysate
- Lane 3 :** Daudi cell lysate
- Lane 4 :** Jurkat cell lysate

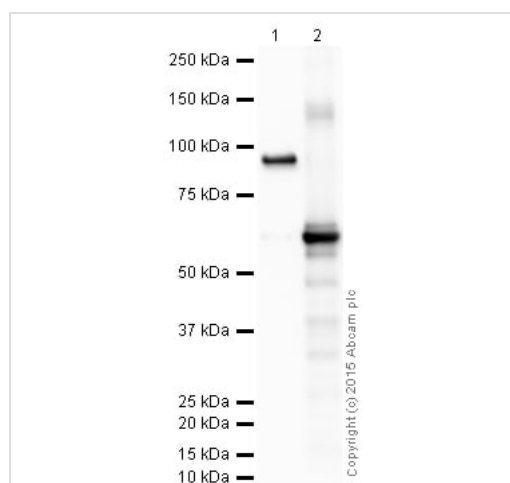
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution

Performed under reducing conditions.

Predicted band size: 51 kDa
Observed band size: 55/60 kDa

False colour image of Western blot: Anti-MEF2A + MEF2C antibody [EPR19089-34] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab197070 was shown to bind specifically to MEF2C. A band was observed at 55/60 kDa in wild-type THP-1 cell lysates with no signal observed at this size in MEF2C knockout cell line. To generate this image, wild-type and MEF2C knockout THP-1 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)

All lanes : Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070) at 1/1000 dilution

Lane 1 : Recombinant Human MEF2A protein ([ab152519](#))

Lane 2 : Human MEF2C full length protein

Lysates/proteins at 0.1 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 51 kDa

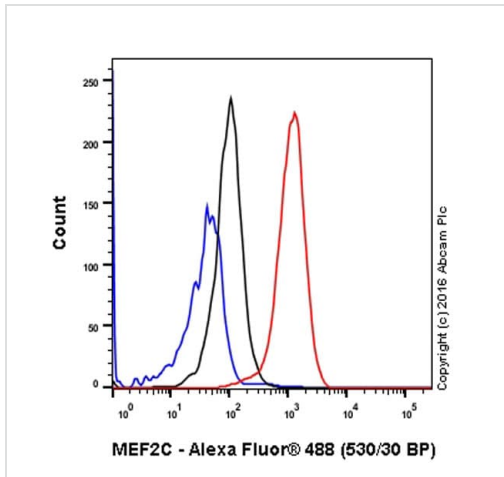
Observed band size: 55,83 kDa

Exposure time: 1 minute

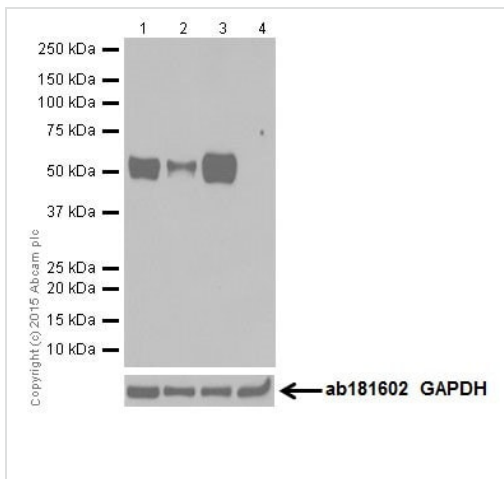
ab197070 recognizes the full length tagged recombinant proteins MEF2A and MEF2C which have expected molecular weights of 83

and 55 kDa respectively.

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab197070 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.



Flow Cytometry (Intracellular) - Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)



Western blot - Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)

Intracellular Flow Cytometry analysis of Raji (human Burkitt's lymphoma) labelling MEF2A + MEF2C with purified ab197070 at 1/30 (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Alexa Fluor® 488 goat anti-rabbit IgG (1/2000) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.

All lanes : Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070) at 1/1000 dilution

Lane 1 : Raji (Human Burkitt's lymphoma cell line) whole cell lysate

Lane 2 : Ramos (Human Burkitt's lymphoma cell line) whole cell lysate

Lane 3 : Daudi (Human Burkitt's lymphoma cell line) whole cell lysate

Lane 4 : Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 51 kDa

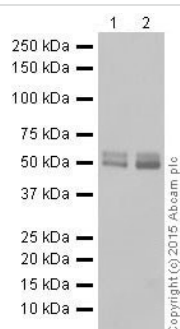
Observed band size: 50-60 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

MEF2C is expressed specifically in cells from B-lymphocyte lineage but not T cell lineage. Jurkat cell lysate serves as a negative control (PMID: 9798649).

The 50-60KD bands observed are consistent with what has been described in the literature (PMID: 18450586)



Western blot - Anti-MEF2A + MEF2C antibody
[EPR19089-34] (ab197070)

All lanes : Anti-MEF2A + MEF2C antibody [EPR19089-34]
(ab197070) at 1/5000 dilution

Lane 1 : Mouse cerebral cortex lysate

Lane 2 : Rat cerebral cortex lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at
1/100000 dilution

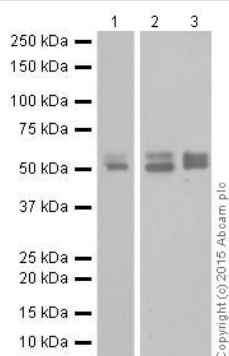
Predicted band size: 51 kDa

Observed band size: 50-60 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

The 50-60KD bands observed are consistent with what has been described in the literature (PMID: 18450586)



Western blot - Anti-MEF2A + MEF2C antibody
[EPR19089-34] (ab197070)

All lanes : Anti-MEF2A + MEF2C antibody [EPR19089-34]
(ab197070) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Rat brain lysate

Lane 3 : Rat spleen lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at
1/100000 dilution

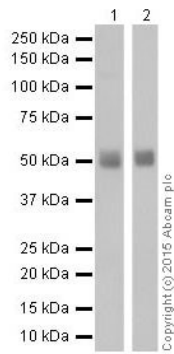
Predicted band size: 51 kDa

Observed band size: 50-60 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1: 1 minute; Lane 2 and 3: 3 minutes.

The 50-60KD bands observed are consistent with what has been
described in the literature (PMID: 18450586).



Western blot - Anti-MEF2A + MEF2C antibody
[EPR19089-34] (ab197070)

All lanes : Anti-MEF2A + MEF2C antibody [EPR19089-34]
(ab197070) at 1/1000 dilution

Lane 1 : C6 (Rat glial tumor cells) whole cell lysate

Lane 2 : Raw264.7 (Mouse macrophage cells transformed with
Abelson murine leukemia virus) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at
1/100000 dilution

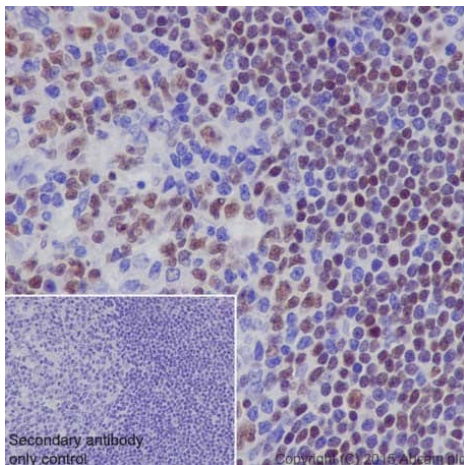
Predicted band size: 51 kDa

Observed band size: 50-60 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 15 seconds; Lane 2: 30 seconds.

The 50-60KD bands observed are consistent with what has been
described in the literature (PMID: 18450586).

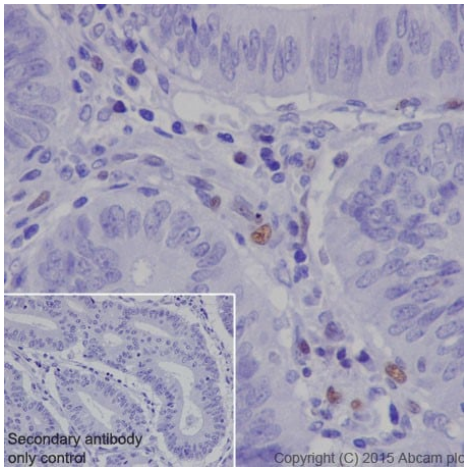


Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-MEF2A + MEF2C
antibody [EPR19089-34] (ab197070)

Immunohistochemical analysis of paraffin-embedded Human tonsil
tissue labeling MEF2C with ab197070 at 1/500 dilution, followed by
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.
Nuclear staining on B lymphocytes of the Human tonsil is observed.
Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary
antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP)
(**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH
9.0 before commencing with IHC staining protocol.

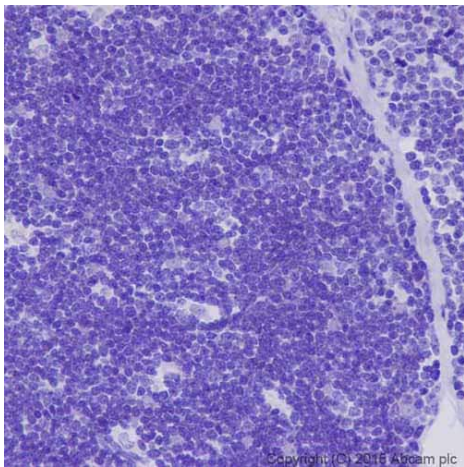


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)

Immunohistochemical analysis of paraffin-embedded Human colonic adenocarcinoma tissue labeling MEF2C with ab197070 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Nucleus staining on lymphocytes of the colonic adenocarcinoma is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

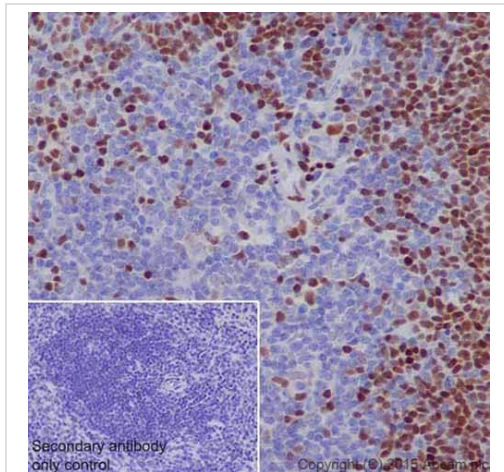
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)

Immunohistochemical analysis of paraffin-embedded Human thymus tissue labeling MEF2C with ab197070 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Negative staining on normal Human thymus is observed. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

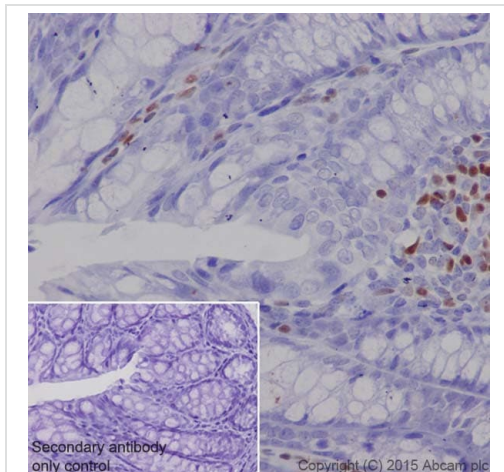


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling MEF2C with ab197070 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Nuclear staining on B lymphocytes of the mouse spleen, the T cells in the periarterial lymphatic sheath showed negative staining. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

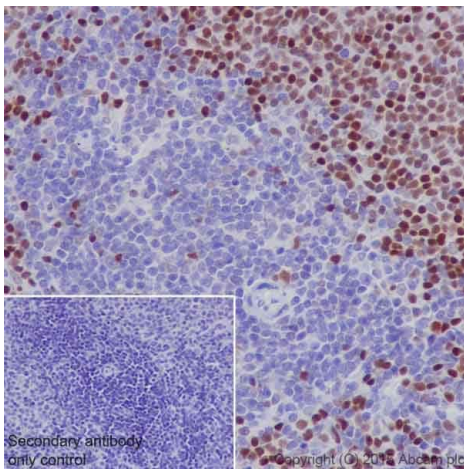


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling MEF2C with ab197070 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Negative staining on the mouse colon epithelium, the lymphocytes on the interstitial substance showed nuclear staining. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

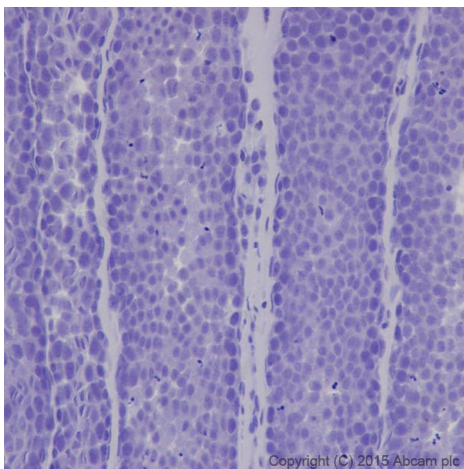


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling MEF2C with ab197070 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Nuclear staining on B lymphocytes of the rat spleen, the T cells in the periarterial lymphatic sheath showed negative staining. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

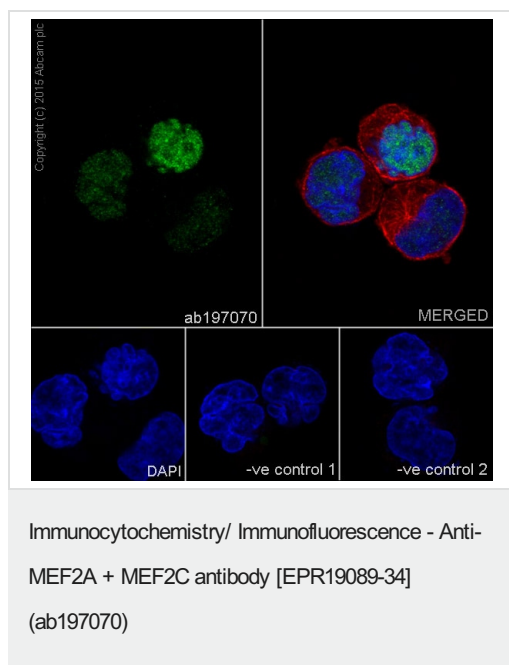
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling MEF2C with ab197070 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Negative staining on rat testis is observed. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

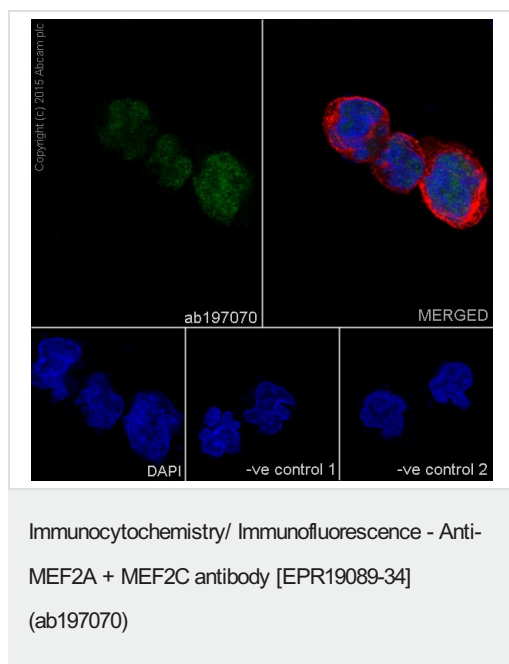


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized K562 (Human chronic myelogenous leukemia cells from bone marrow) cells labeling MEF2C with ab197070 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on K562 cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab197070 at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.

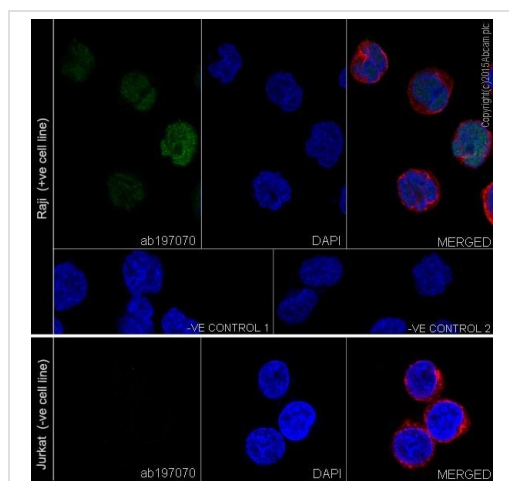


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Raji (Human Burkitt's lymphoma cell line) cells labeling MEF2C with ab197070 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on Raji cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab197070 at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Raji (Human Burkitt's lymphoma cell line) and Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling MEF2C with ab197070 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on Raji cell line. Negative expression in Jurkat cells. The nuclear counterstain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab197070 at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.

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Confirmed specificity

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Anti-MEF2A + MEF2C antibody [EPR19089-34] (ab197070)

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