

Anti-Musashi 1 / Msi1 antibody [EP1302] ab52865

KO 評価済 リコンビナント RabMAb

★★★★☆ 18 Abreviews 54 References 画像数 11

製品の概要

製品名	Anti-Musashi 1 / Msi1 antibody [EP1302]
製品の詳細	Rabbit monoclonal [EP1302] to Musashi 1 / Msi1
由来種	Rabbit
特異性	Several customers have found that this antibody gives good results in mouse and rat however in our hands, we cannot obtain positive results. This antibody is therefore no longer covered by our Abpromise guarantee for use in mouse or rat.
アプリケーション	適用あり: IHC-P, ICC/IF, Flow Cyt (Intra), WB 適用なし: IP
種交差性	交差種: Mouse, Chicken, Human, Quail
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	IHC-P: Human lung carcinoma tissue. Flow Cyt (intra): SH-SY5Y cells. ICC/IF: SH-SY5Y, Neuro-2a and HAP1-MSI1 cells. WB: SH-SY5Y cell lysate.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EP1302
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ab52865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。

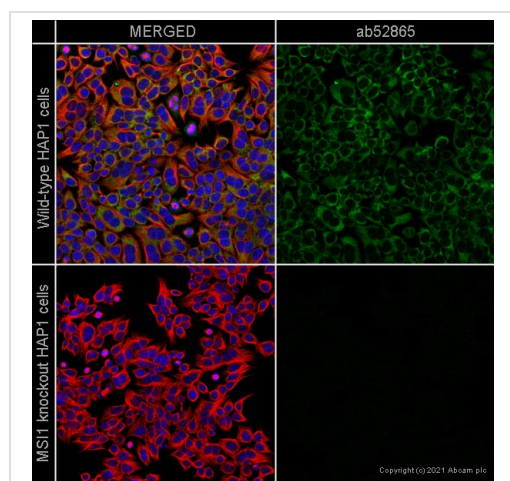
アプリケーション	Abreviews	特記事項
IHC-P	★★★★★ (7)	1/50 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.
Flow Cyt (Intra)		1/80. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/40.
WB	★★★★★ (6)	1/1000. Detects a band of approximately 39 kDa (predicted molecular weight: 39 kDa). For unpurified use at 1/2000.

Is unsuitable for IP.

ターゲット情報

機能	RNA binding protein that regulates the expression of target mRNAs at the translation level. Regulates expression of the NOTCH1 antagonist NUMB. Binds RNA containing the sequence 5'-GUUAGUUAGUUAGUU-3' and other sequences containing the pattern 5'-[GA]U(1-3)AGU-3'. May play a role in the proliferation and maintenance of stem cells in the central nervous system.
組織特異性	Detected in fetal kidney, brain, liver and lung, and in adult brain and pancreas. Detected in hepatoma cell lines.
配列類似性	Belongs to the Musashi family. Contains 2 RRM (RNA recognition motif) domains.
ドメイン	The first RNA recognition motif binds more strongly to RNA compared to the second one.
細胞内局在	Cytoplasm. Nucleus.

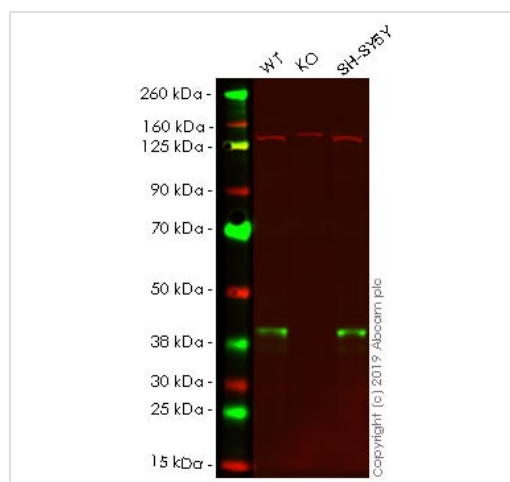
画像



Immunocytochemistry/ Immunofluorescence - Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

ab52865 staining Musashi 1 / Msi1 in HAP1-MSI1 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab52865 at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Western blot - Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

All lanes : Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865) at 1/2000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : MSI1 knockout HAP1 whole cell lysate

Lane 3 : SH-SY5Y whole cell lysate

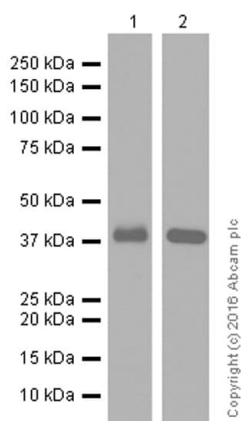
Predicted band size: 39 kDa

Observed band size: 39 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab52865 observed at 39 kDa. Red - loading control, **ab130007**, observed at 130 kDa.

ab52865 was shown to specifically react with Musashi 1 / Msi1 in wild-type HAP1 cells as signal was lost in MSI1 knockout cells. Wild-type and MSI1 knockout samples were subjected to SDS-PAGE. Ab52865 and **ab130007** (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1/2000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed

ab216776 secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

All lanes : Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865) at 1/1000 dilution (purified)

Lane 1 : SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lane 2 : UMNSAH/DF-1 (chicken embryo fibroblast) whole cell lysates

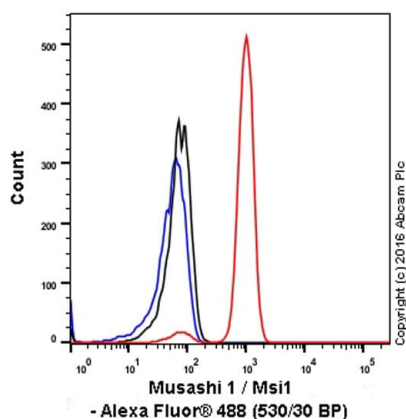
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

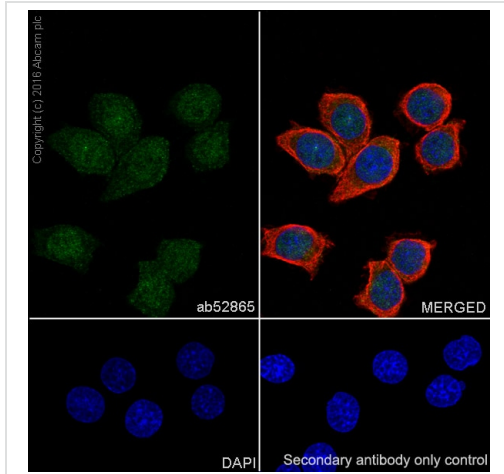
Predicted band size: 39 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



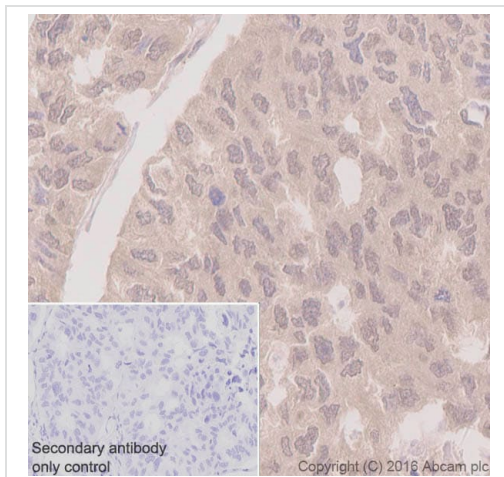
Flow Cytometry (Intracellular) - Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

Intracellular Flow Cytometry analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labeling Musashi 1 / Msi1 with purified ab52865 at 1/80 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



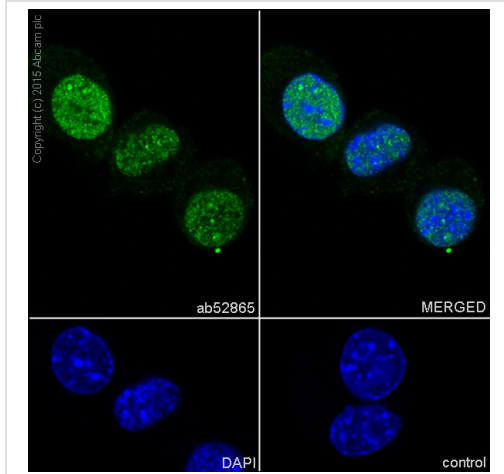
Immunocytochemistry/ Immunofluorescence - Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

Immunocytochemistry/ Immunofluorescence analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labeling Musashi 1/ Msi1 with Purified ab52865 at 1:500 dilution. Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200. Ab150077 Goat anti rabbit IgG(Alexa Fluor® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



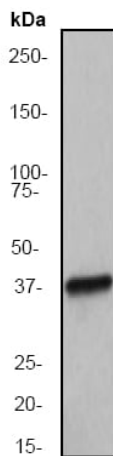
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung carcinoma tissue sections labeling Musashi 1/ Msi1 with Purified ab52865 at 1:50 dilution (17.7 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. **ab97051** Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used at 1:500 dilution. PBS instead of the primary antibody was used as the negative control.



Immunocytochemistry/ Immunofluorescence - Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

Immunocytochemistry/Immunofluorescence analysis of Neuro-2a (mouse neuroblastoma) labelling Musashi 1 with purified ab52865 at 1/500. Cells were fixed with 4% Paraformaldehyde and permeabilised by 0.1% tritonX-100. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody (Ab150077). Nuclei counterstained with DAPI (blue).



Western blot - Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

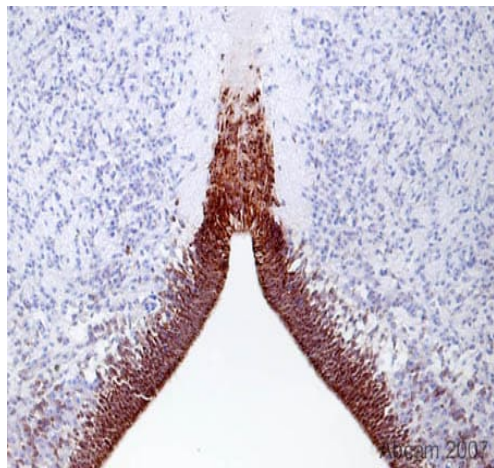
Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865) at 1/2000 dilution (unpurified) + SH-SY-5Y cell lysate at 10 µg/ml

Secondary

goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 39 kDa

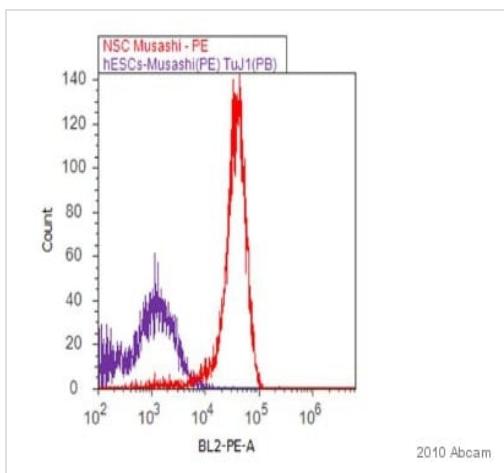
Observed band size: 39 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

This image is courtesy of Carl Hobbs, King's College London, United Kingdom

Immunohistochemical detection (on formaldehyde/PFA-fixed paraffin-embedded sections) of Musashi 1 / Msi1 antibody [EP1302] (unpurified ab52865) on Quail Tissue sections (embryo d5/6 Brain stem T/S). Antigen retrieval step: Heat mediated. Blocking step: 1% BSA for 10 mins at RT. Primary Antibody unpurified ab52865 incubated at 1/300 for 2 hours at RT. Secondary Antibody: Biotin labelled goat anti rabbit IgG (1/300).



Flow Cytometry (Intracellular) - Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

This image is courtesy of an abreview submitted by Jennifer Moore, Stem Cell Research Center, United States

Intracellular Flow Cyt image of Musashi1 (ab52865) using Accutase digested single cell suspension of hESC (Neural stem cells derived from human embryonic). The cells were fixed and permeabilized. The cells were incubated with unpurified ab52865 (1/20 using Prem/wash solution) for 30 mins at 23°C.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Musashi 1 / Msi1 antibody [EP1302] (ab52865)

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