abcam

Product datasheet

Anti-Musashi 1 / Msi1 antibody [EP1302] - BSA and Azide free ab221797

KO 評価済 リコンビナント RabMAb

11 References 画像数 9

製品の概要

製品名	Anti-Musashi 1 / Msi1 antibody [EP1302] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EP1302] to Musashi 1 / Msi1 - BSA and Azide free
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:** ICC/IF, WB, IHC-P, Flow Cyt (Intra) **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.
特記事項	ab221797 is the carrier-free version of **ab52865**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
バッファー	pH: 7.20 Constituent: PBS
キャリア・フリー	はい
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ab221797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。

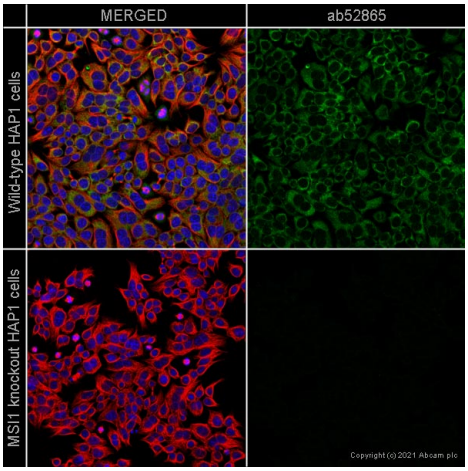
アプリケーション	Abreviews	特記事項
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 39 kDa (predicted molecular weight: 39 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab199376** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

追加情報 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

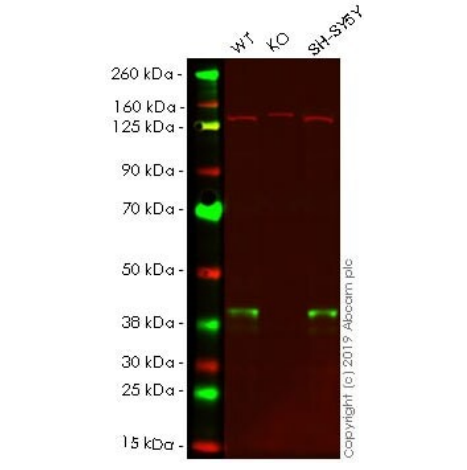


Immunocytochemistry/ Immunofluorescence - Anti-Musashi 1 / Msi1 antibody [EP1302] - BSA and Azide free (ab221797)

This data was developed using the same antibody clone in a different buffer formulation containing PBS and sodium azide (**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] - BSA and Azide free (ab221797)

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

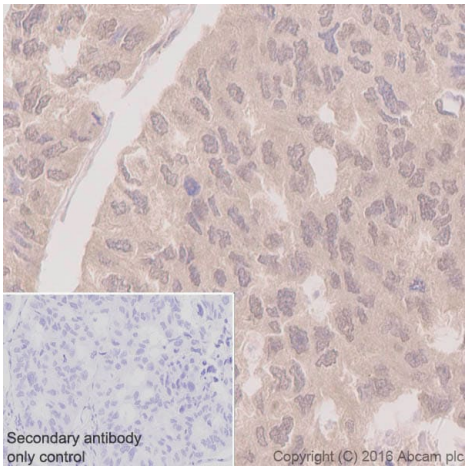
Predicted band size: 39 kDa
Observed band size: 39 kDa

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.

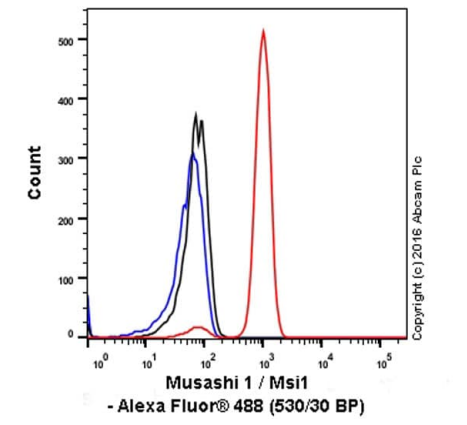
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52865**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Musashi 1 / Msi1 antibody [EP1302] - BSA and Azide free (ab221797)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung carcinoma tissue sections labeling Mushashi 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.

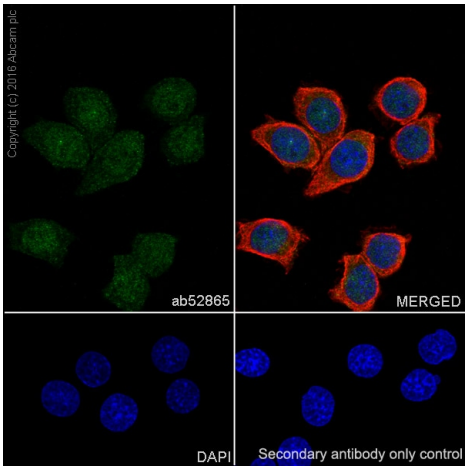
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52865**).



Flow Cytometry (Intracellular) - Anti-Musashi 1 / Msi1 antibody [EP1302] - BSA and Azide free (ab221797)

Intracellular Flow Cytometry analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labeling Mushashi 1/ Msi1 with purified **ab52865** at 1/80 dilution (10 µg/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).

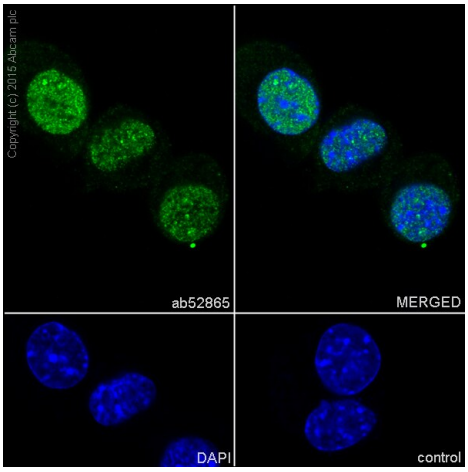
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52865**).



Immunocytochemistry/ Immunofluorescence - Anti-Musashi 1 / Msi1 antibody [EP1302] - BSA and Azide free (ab221797)

Immunocytochemistry/ Immunofluorescence analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labeling Mushashi 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.

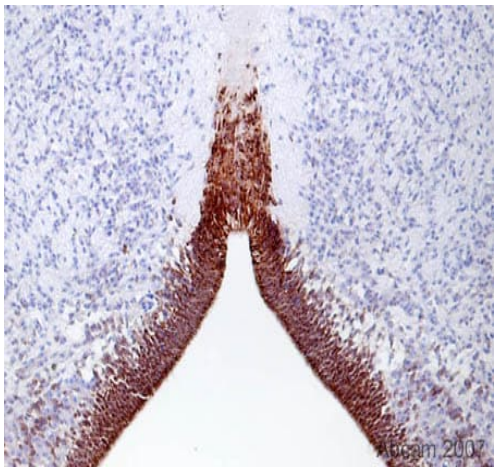
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52865**).



Immunocytochemistry/ Immunofluorescence - Anti-Musashi 1 / Msi1 antibody [EP1302] - BSA and Azide free (ab221797)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52865**).

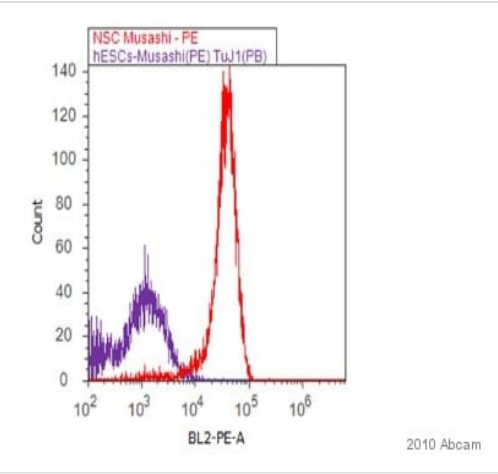


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Musashi 1 / Msi1 antibody [EP1302] - BSA and Azide free (ab221797)

This image is courtesy of an Abreview submitted by Carl Hobbs.

Immunohistochemistical 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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52865**).

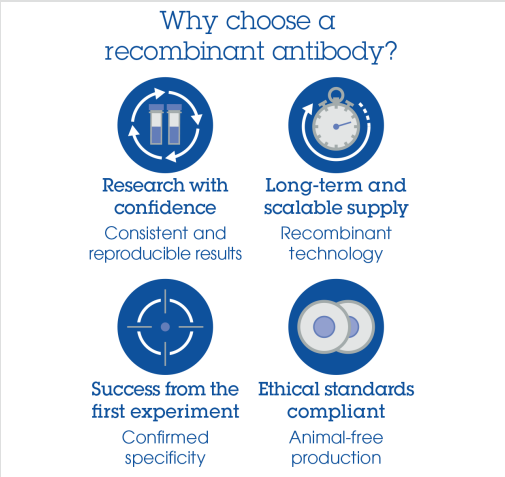


Flow Cytometry (Intracellular) - Anti-Musashi 1 / Msi1 antibody [EP1302] - BSA and Azide free (ab221797)

This image is courtesy of an Abreview submitted by Jennifer Moore.

Intracellular Intracellular Flow Cyt image of Musashi1 (**ab52865**)using Accutase digested single cell suspension of hESC. the cells were fixed adn permeabilized . The cells were incubated with unpurified **ab52865** (1/20 using Prem/wash solution) for 30 mins at 23°C.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52865**).



Anti-Musashi 1 / Msi1 antibody [EP1302] - BSA and Azide free (ab221797)

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