

Product datasheet

Anti-Musashi 1 / Msi1 antibody ab21628

★★★★★ [7 Abreviews](#) [31 References](#) [3 Images](#)

Overview

Product name	Anti-Musashi 1 / Msi1 antibody
Description	Rabbit polyclonal to Musashi 1 / Msi1
Host species	Rabbit
Specificity	Several customers have found that this antibody gives good results in rat however in our hands, we cannot obtain positive results. This antibody is therefore no longer covered by our Abpromise guarantee for use in rat.
Tested applications	Suitable for: WB, IHC-P Unsuitable for: ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human Musashi 1/ Msi1 aa 1-100 (internal sequence) conjugated to keyhole limpet haemocyanin. (Peptide available as ab23870 , ab39212)
Positive control	IHC: Human small intestine, and hippocampus tissues
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our

scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab21628 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

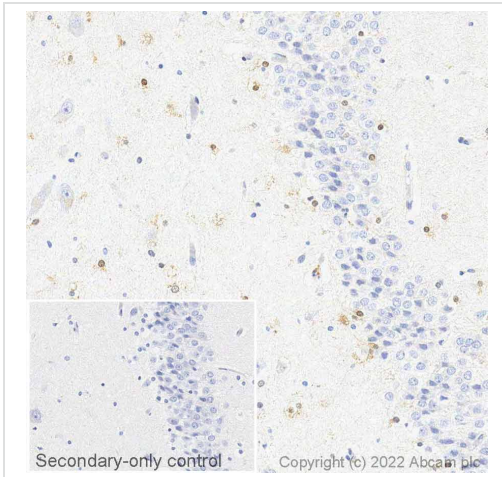
Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 39 kDa (predicted molecular weight: 39 kDa).
IHC-P	★☆☆☆☆ (2)	Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes Is unsuitable for ICC/IF.

Target

Function	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.
Tissue specificity	Detected in fetal kidney, brain, liver and lung, and in adult brain and pancreas. Detected in hepatoma cell lines.
Sequence similarities	Belongs to the Musashi family. Contains 2 RRM (RNA recognition motif) domains.
Domain	The first RNA recognition motif binds more strongly to RNA compared to the second one.
Cellular localization	Cytoplasm. Nucleus.

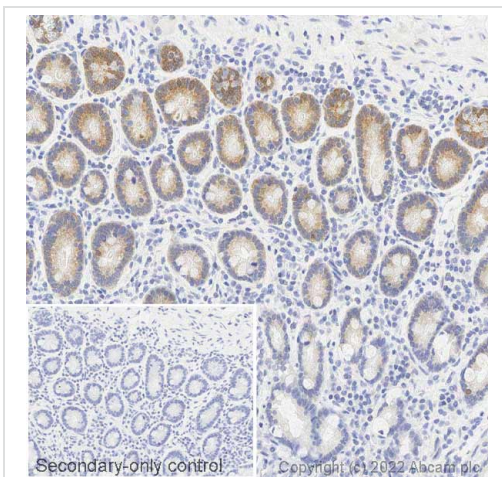
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Musashi 1 / Msi1 antibody (ab21628)

IHC image of Musashi 1 / Msi1 staining in a section of formalin-fixed paraffin-embedded normal human hippocampus* performed on a Leica BOND™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab21628, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

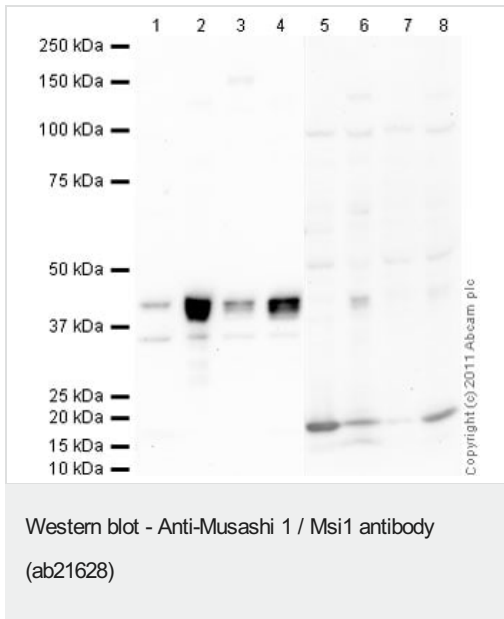
*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Musashi 1 / Msi1 antibody (ab21628)

IHC image of Musashi 1 / Msi1 staining in a section of formalin-fixed paraffin-embedded normal human small intestine* performed on a Leica BOND™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab21628, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



All lanes : Anti-Musashi 1 / Msi1 antibody (ab21628) at 1 µg/ml

Lane 1 : SHSY-5Y (Human neuroblastoma cell line) Whole Cell Lysate

Lane 2 : 46C (Mouse neural progenitor, selected for Sox1 expression cell line) Whole Cell Lysate (**ab27205**)

Lane 3 : E14 Mouse Embryo Brain Tissue Lysate

Lane 4 : E10 Mouse Embryo Brain Tissue Lysate

Lane 5 : SHSY-5Y (Human neuroblastoma cell line) Whole Cell Lysate with Human Musashi 1 / Msi1 peptide (**ab23870**) at 1 µg/ml

Lane 6 : 46C (Mouse neural progenitor, selected for Sox1 expression cell line) Whole Cell Lysate (**ab27205**) with Human Musashi 1 / Msi1 peptide (**ab23870**) at 1 µg/ml

Lane 7 : E14 Mouse Embryo Brain Tissue Lysate with Human Musashi 1 / Msi1 peptide (**ab23870**) at 1 µg/ml

Lane 8 : E10 Mouse Embryo Brain Tissue Lysate with Human Musashi 1 / Msi1 peptide (**ab23870**) at 1 µg/ml

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Predicted band size: 39 kDa

Observed band size: 39 kDa

Additional bands at: 34 kDa. We are unsure as to the identity of these extra bands.

ab21628 recognized a band corresponding to the expected size of Musashi1/Msi1. The band was blocked using the immunising peptide (**ab23870**).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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