

Product datasheet

Anti-MST4 antibody [EP1864Y] ab52491

Recombinant RabMAb

[14 References](#) [7 Images](#)

Overview

Product name	Anti-MST4 antibody [EP1864Y]
Description	Rabbit monoclonal [EP1864Y] to MST4
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, WB, IP, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human, Recombinant fragment
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa cell lysate; Rat and mouse brain tissue lysate. IHC-P: Human placenta tissue. ICC/IF: HeLa cells. IP: HeLa cells. Flow Cyt (intra): HeLa cells.
General notes	<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> <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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1864Y

Isotype

IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52491 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
Flow Cyt (Intra)		1/1000 - 1/10000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/500.
WB		1/100000 - 1/200000. Detects a band of approximately 50 kDa (predicted molecular weight: 47 kDa).
IP		1/1000.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

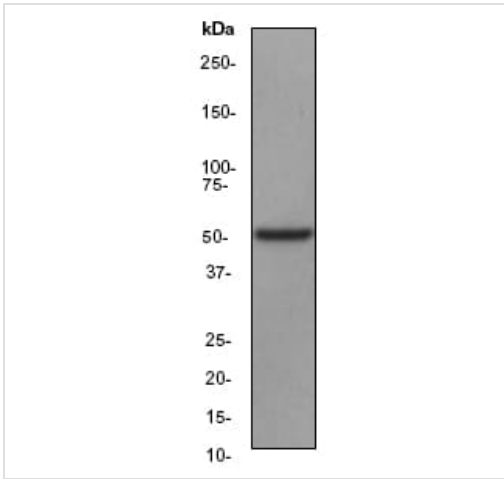
Target

Function Mediator of cell growth. Modulates apoptosis.

Sequence similarities Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 protein kinase domain.

Cellular localization Cytoplasm. Golgi apparatus membrane. Localizes to the Golgi apparatus.

Images



Western blot - Anti-MST4 antibody [EP1864Y] (ab52491)

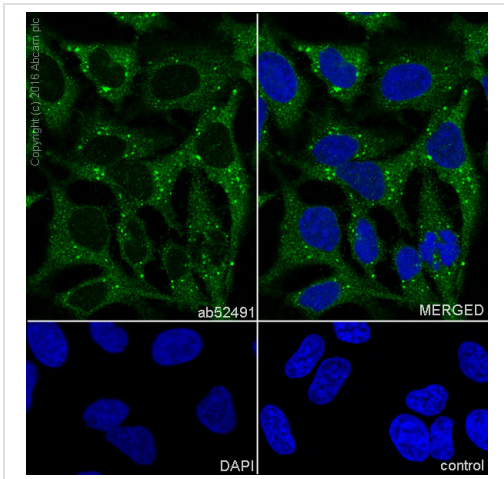
Anti-MST4 antibody [EP1864Y] (ab52491) at 1/200000 dilution + HeLa cell lysate at 10 µg

Secondary

Goat anti-rabbit HRP at 1/2000 dilution

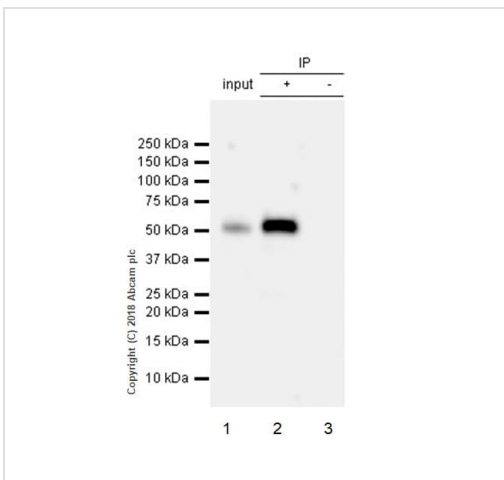
Predicted band size: 47 kDa

Observed band size: 50 kDa



Immunocytochemistry/ Immunofluorescence - Anti-MST4 antibody [EP1864Y] (ab52491)

Immunocytochemistry/Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) labelling MST4 with purified ab52491 at 1/500. Cells were fixed with 100% methanol and permeabilized with 0.1% triton X-100. **ab150077** Goat anti rabbit IgG (Alexa Fluor® 488) at 1/1000 was used as the secondary antibody. Nuclei were counterstained with DAPI. PBS was used instead of the primary antibody as the negative control.



Immunoprecipitation - Anti-MST4 antibody [EP1864Y] (ab52491)

MST4 was immunoprecipitated using ab52491 at 1:100 dilution (2µg in 0.35mg lysates).

All lanes : Anti-MST4 antibody [EP1864Y] (ab52491) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate with 5% NFDm/TBST

Lane 2 : HeLa whole cell lysate immunoprecipitated with ab52491 1:100 dilution (2µg in 0.35mg lysates) with 5% NFDm/TBST

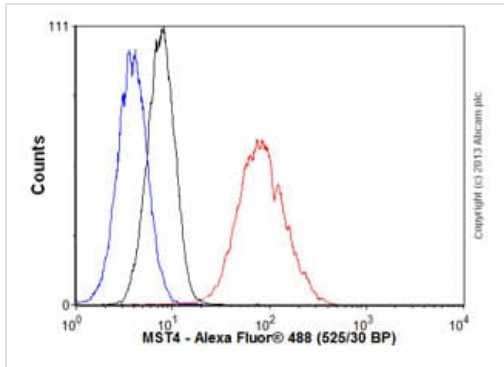
Lane 3 : HeLa whole cell lysate immunoprecipitated with Rabbit monoclonal IgG (**ab172730**) 1:100 dilution (2µg in 0.35mg lysates), with 5% NFDm/TBST

Lysates/proteins at 10 µg per lane.

Secondary

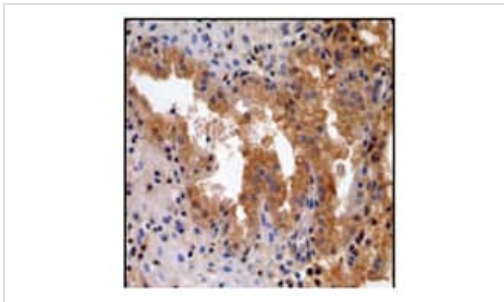
All lanes : VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/5000 dilution (VeriBlot for IP secondary antibody (HRP))

Exposure time: 10 seconds



Flow Cytometry (Intracellular) - Anti-MST4 antibody [EP1864Y] (ab52491)

Overlay histogram showing HeLa cells stained with ab52491 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab52491, 1/10000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor[®] 488 goat anti-rabbit IgG (H&L) (**ab150077**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MST4 antibody [EP1864Y] (ab52491)

Immunohistochemical analysis of paraffin-embedded human placenta using ab52491 at a 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-MST4 antibody [EP1864Y] (ab52491)

Anti-MST4 antibody [EP1864Y] (ab52491) at 1/20000 dilution + Recombinant human MST4 protein ([ab60341](#)) at 0.01 µg

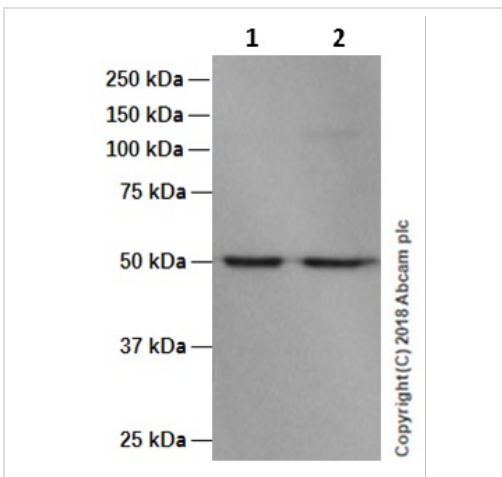
Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Predicted band size: 47 kDa

Exposure time: 20 seconds

Ab52491 recognizes the full length tagged recombinant MST4 protein ([ab60341](#)) which has an expected molecular weight of 72 kDa.



Western blot - Anti-MST4 antibody [EP1864Y] (ab52491)

All lanes : Anti-MST4 antibody [EP1864Y] (ab52491) at 1/100000 dilution

Lane 1 : Mouse brain tissue lysate with 5% NFDM/TBST

Lane 2 : Rat brain tissue lysate with 5% NFDM/TBST

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 47 kDa

Observed band size: 50 kDa

Exposure time: 30 seconds

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