Overview

Product name: Anti-MST4 antibody [EP1864Y]
Description: Rabbit monoclonal [EP1864Y] to MST4
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, WB, IP, ICC, Flow Cyt, IHC-P
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide within Human MST4 aa 1-100 (N terminal). The exact sequence is proprietary.
Positive control: WB: HeLa cell lysate IHC-P: Human placenta tissue
General notes: Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

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, 9.85% Tris glycine, 50% Tissue culture supernatant
Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: EP1864Y
Isotype: IgG

Applications

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.
### 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

### Images

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

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

*why is the actual band size different from the predicted?*
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.

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
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.

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.

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
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
why is the actual band size different from the predicted?

Exposure time: 30 seconds

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors