

# Anti-MST4 + MST3 + STK25 (phospho T174 + T178 + T190) antibody [EP2123Y] - BSA and Azide free ab247489

Recombinant RabMAb

2 Images

## Overview

<b>Product name</b>	Anti-MST4 + MST3 + STK25 (phospho T174 + T178 + T190) antibody [EP2123Y] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EP2123Y] to MST4 + MST3 + STK25 (phospho T174 + T178 + T190) - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	ab247489 is the carrier-free version of <a href="#">ab76579</a> .

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<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- 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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

## Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP2123Y
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab247489 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 at an assay dependent concentration. Detects a band of approximately 52 kDa (predicted molecular weight: 47-49 kDa).

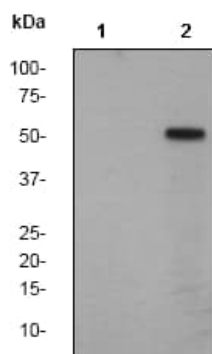
**Application notes** Is unsuitable for Flow Cyt, IHC-P or IP.

## Target

**Relevance** Novel human Ste20-related kinase Mst4 is biologically active in the activation of MEK/ERK pathway and in mediating cell growth and transformation. It is pro apoptotic and is highly expressed in placenta, thymus, and peripheral blood leukocytes. Interaction with Golgi matrix protein GOLGA2 results in autophosphorylation on Thr-178, possibly as a consequence of stabilization of dimer formation. This may also be activated by C terminal cleavage. MST3 or Mammalian Sterile 20-like kinase 3 is a member of the germinal center kinase-III family. MST3 contains a conserved kinase domain at its NH(2)-terminus and a regulatory domain at its COOH-terminus. Caspase-mediated cleavage of the regulatory domain of MST3 activates its intrinsic kinase activity and leads to nuclear translocation. Expression of COOH-terminal truncated MST3 in cells results in DNA fragmentation and induction of apoptosis. It can inhibit cell migration in a fashion dependent on autophosphorylation and can regulate paxillin phosphorylation through tyrosine phosphatase PTP-PEST. Mitogen activated protein kinase cascades have been conserved throughout evolution. In mammals, these cascades allow responses to complex stimuli such as growth factors and inflammatory cytokines. In yeast, STK25 functions upstream of the MAPK cascade.

**Cellular localization** STK25 and MST4: Cytoplasmic, Golgi Apparatus MST3: Cytoplasmic

## Images



Western blot - Anti-MST4 + MST3 + STK25  
(phospho T174 + T178 + T190) antibody [EP2123Y]  
- BSA and Azide free (ab247489)

**All lanes :** Anti-MST4 + MST3 + STK25 (phospho T174 + T178 + T190) antibody [EP2123Y] ([ab76579](#)) at 1/2000 dilution

**Lane 1 :** HeLa cell lysates, untreated

**Lane 2 :** HeLa cell lysates, treated with calyculin A

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 47-49 kDa

**Observed band size:** 52 kDa

This data was developed using [ab76579](#), the same antibody clone in a different buffer formulation.

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

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

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