abcam

Product datasheet

# Anti-Serine/threonine-protein kinase 4/MST-1 antibody [EP1465Y] - BSA and Azide free ab232551

KO VALIDATED Recombinant RabMAb

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## Overview

| | |
|---|---|
| **Product name** | Anti-Serine/threonine-protein kinase 4/MST-1 antibody [EP1465Y] - BSA and Azide free |
| **Description** | Rabbit monoclonal [EP1465Y] to Serine/threonine-protein kinase 4/MST-1 - BSA and Azide free |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** Flow Cyt (Intra), IP, IHC-P, WB, ICC/IF |
| **Species reactivity** | **Reacts with:** Mouse, Rat, Human |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | IHC-P: Human gastric carcinoma tissue. |
| **General notes** | ab232551 is the carrier-free version of **ab51134**.<br><br>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.<br><br>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.<br><br>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.<br><br>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.<br><br>This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br><br>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 +4°C. Do Not Freeze. |
| **Storage buffer** | pH: 7.2<br>Constituent: PBS |
| **Carrier free** | Yes |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EP1465Y |
| **Isotype** | IgG |

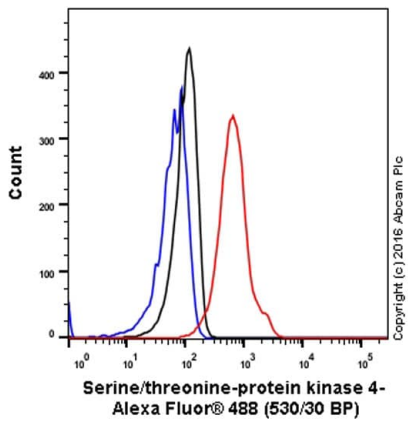
## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab232551 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)** | | Use at an assay dependent concentration. |
| **IP** | | Use at an assay dependent concentration. |
| **IHC-P** | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.<br>We strongly recommend that customers perform an antigen retrieval step. |
| **WB** | | Use at an assay dependent concentration. Detects a band of approximately 59 kDa (predicted molecular weight: 55 kDa). |
| **ICC/IF** | | Use at an assay dependent concentration. |

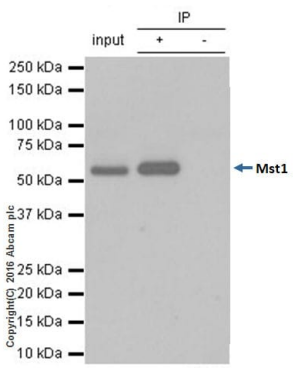
## Images




Flow Cytometry (Intracellular) - Anti-Serine/threonine-protein kinase 4/MST-1 antibody [EP1465Y] - BSA and Azide free (ab232551)

Intracellular Flow Cytometry analysis of HeLa cells labelling Serine/theronine-protein kinase 4 /MST-1 with purified **ab51134** at a dilution of 1/50 (red). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. An Alexa Flour® 488-conjugated goat anti-rabbit IgG (1/2000) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab51134**).

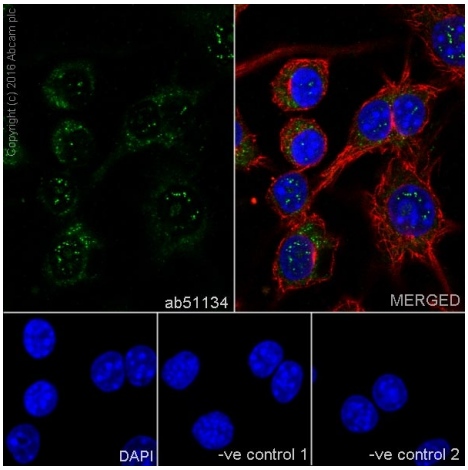



Immunoprecipitation - Anti-Serine/threonine-protein kinase 4 antibody [EP1465Y] - BSA and Azide free (ab232551)

**ab51134** immunoprecipitating Serine/threonine-protein kinase 4. 10µg of cell lysate was incubated with primary antibody at a dilution of 1/30 and VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at a dilution of 1/1000.

**Lane 1:** Jurkat (human acute T cell leukemia) whole cell lysate (10ug)
**Lane 2:** Jurkat (human acute T cell leukemia) whole cell lysate
**Lane 3:** Rabbit monoclonal IgG (**ab172730**) instead of **ab51134** in Jurkat (human acute T cell leukemia) whole cell lysate

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab51134**).

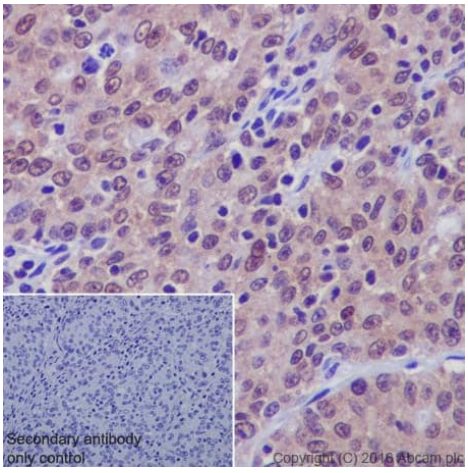



Immunocytochemistry/ Immunofluorescence - Anti-Serine/threonine-protein kinase 4 antibody [EP1465Y] - BSA and Azide free (ab232551)

**ab51134** staining Serine/threonine-protein kinase 4 / MST-1 in Raw264.7 (mouse abelson murine leukemia virus-induced tumor) cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 100% methanol and permeabilized with 0.1% Triton X-100. Samples were incubated with primary antibody at a dilution of 1/100. A goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a concentration of 1/1000. **ab7291** anti-Tubulin (mouse mAb) (1/1000) and **ab150120** AlexaFluor®594 Goat anti-Mouse secondary (1/1000) were used as counterstains for primary antibody **ab51134** and secondary antibody **ab150077** respectively and DAPI was used as a nuclear counterstain.

**Negative control 1**: Rabbit primary antibody and anti-mouse secondary antibody (**ab150120**)
**Negative control 2:** Mouse primary antibody (**ab7291**) and anti-rabbit secondary antibody (**ab150077**)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab51134**).




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Serine/threonine-protein kinase 4 antibody [EP1465Y] - BSA and Azide free (ab232551)

**ab51134** staining Serine/threonine-protein kinase 4 in human gastric carcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and antigen retrieval was by heat mediation in a EDTA buffer. Samples were incubated with primary antibody at a dilution of 1/50. A goat anti-rabbit IgG H&L (HRP) **ab97051** was used as the secondary antibody at a dilution of 1/500.

**Negative control 1:** PBS in place of primary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab51134**).

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