

# Anti-MEK3 antibody [EP555Y] - BSA and Azide free ab247295

KO VALIDATED

Recombinant

RabMAb

3 Images

### Overview

Product name	Anti-MEK3 antibody [EP555Y] - BSA and Azide free
Description	Rabbit monoclonal [EP555Y] to MEK3 - BSA and Azide free
Host species	Rabbit
Specificity	This antibody is specific for MEK3.
Tested applications	<b>Suitable for:</b> WB <b>Unsuitable for:</b> ICC/IF or IHC
Species reactivity	<b>Reacts with:</b> Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab247295 is the carrier-free version of <a href="#">ab40836</a>.</p> <p>Our <b>carrier-free</b> 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.</p> <p>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.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

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	Affinity purified
Clonality	Monoclonal
Clone number	EP555Y
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab247295 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

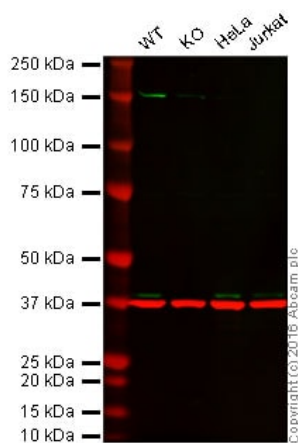
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 40 kDa (predicted molecular weight: 39 kDa).

**Application notes** Is unsuitable for ICC/IF or IHC.

## Target

Function	Dual specificity kinase. Is activated by cytokines and environmental stress in vivo. Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinase p38.
Tissue specificity	Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.
Involvement in disease	Note=Defects in MAP2K3 may be involved in colon cancer.
Sequence similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily. Contains 1 protein kinase domain.
Post-translational modifications	Autophosphorylated. Phosphorylation on Ser-218 and Thr-222 by MAP kinase kinase kinases regulates positively the kinase activity. Yersinia yopJ may acetylate Ser/Thr residues, preventing phosphorylation and activation, thus blocking the MAPK signaling pathway.

## Images



Western blot - Anti-MEK3 antibody [EP555Y] - BSA and Azide free (ab247295)

This data was developed using [ab40836](#), the same antibody clone in a different buffer formulation.

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

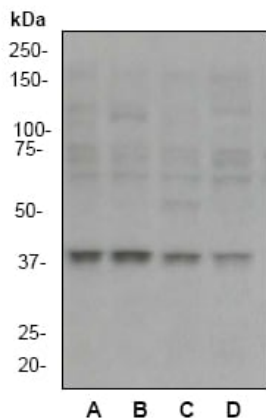
**Lane 2:** MEK3knockout HAP1 cell lysate (20 µg)

**Lane 3:** HeLa cell lysate (20 µg)

**Lane 4:** Jurkat cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - [ab40836](#) observed at 150 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

[ab40836](#) was shown to recognize MEK3 when MEK3 knockout samples were used, along with additional cross-reactive bands. Wild-type and MEK3 knockout samples were subjected to SDS-PAGE. [ab40836](#) and [ab8245](#) (loading control to GAPDH) were both diluted to 1/5000 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed [ab216773](#) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed [ab216776](#) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-MEK3 antibody [EP555Y] - BSA and Azide free (ab247295)

**All lanes :** Anti-MEK3 antibody [EP555Y] ([ab40836](#)) at 1/20000 dilution

**Lane 1 :** Jurkat cell lysate

**Lane 2 :** HeLa cell lysate

**Lane 3 :** MCF-7 cell lysate

**Lane 4 :** K562 cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 39 kDa

**Observed band size:** 40 kDa

This data was developed using [ab40836](#), 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

Anti-MEK3 antibody [EP555Y] - BSA and Azide free  
(ab247295)

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

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