

Product datasheet

Anti-MEK3 antibody [EP555Y] ab40836

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	Anti-MEK3 antibody [EP555Y]
Description	Rabbit monoclonal [EP555Y] to MEK3
Host species	Rabbit
Specificity	This antibody is specific for MEK3.
Tested applications	Suitable for: WB Unsuitable for: ICC/IF or IHC
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Jurkat, Hela, MCF-7 and K562 cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <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>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
Purity	Tissue culture supernatant

Clonality	Monoclonal
Clone number	EP555Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab40836 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

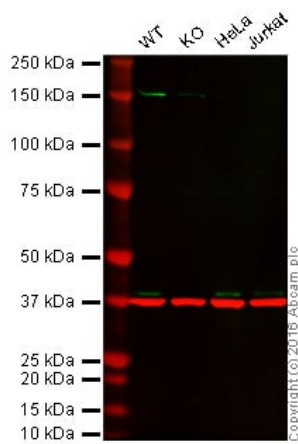
Application	Abreviews	Notes
WB		1/5000 - 1/20000. Detects a band of approximately 40 kDa (predicted molecular weight: 39 kDa).

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]
(ab40836)

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

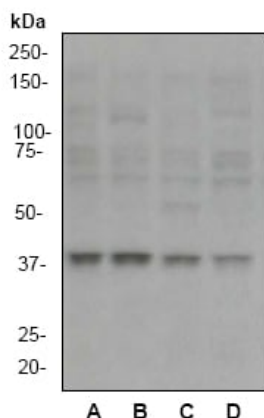
Lane 2: MEK3knockout HAP1 cell lysate (20 µg)

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]
(ab40836)

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

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] (ab40836)

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

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