

Product datasheet

Anti-MEK4/MKK4 antibody [EP615Y] - BSA and Azide free ab242052

KO VALIDATED Recombinant RabMAb

1 Image

Overview

Product name	Anti-MEK4/MKK4 antibody [EP615Y] - BSA and Azide free
Description	Rabbit monoclonal [EP615Y] to MEK4/MKK4 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab242052 is the carrier-free version of ab33912.</p> <p>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.</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 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.</p> <p>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.</p> <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>

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
Purification notes	ab33912 is a purified IgG.
Clonality	Monoclonal
Clone number	EP615Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab242052 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

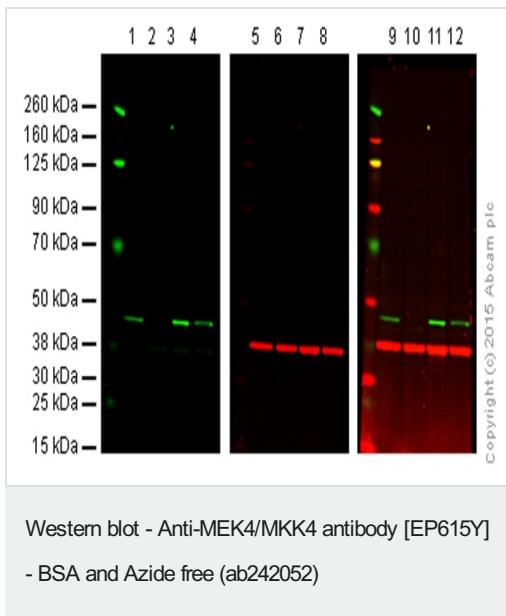
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 44 kDa.

Application notes Is unsuitable for ICC/IF.

Target

Function	Dual specificity kinase that activates the JUN kinases MAPK8 (JNK1) and MAPK9 (JNK2) as well as MAPK14 (p38) but not MAPK1 (ERK2) or MAPK3 (ERK1).
Tissue specificity	Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.
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	Activated by phosphorylation on Ser/Thr by MAP kinase kinase kinases.

Images



Lanes 1, 5 and 9: Wild-type HAP1 cell lysate (20 µg)

Lanes 2, 6 and 10: MEK4 knockout HAP1 cell lysate (20 µg)

Lanes 3, 7 and 11: HeLa cell lysate (20 µg)

Lanes 4, 8 and 12: A431 cell lysate (20 µg)

Lanes 1, 2, 3 and 4: Green signal from target - **ab33912** observed at 44 kDa

Lanes 5, 6, 7 and 8: Red signal from loading control - **ab8245** observed at 37 kDa

Lanes 9, 10, 11 and 12: Merged (red and green) signal

ab33912 was shown to specifically react with MEK4 when MEK4 knockout samples were used. Wild-type and MEK4 knockout samples were subjected to SDS-PAGE. **ab33912** and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/2000 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 1/10 000 dilution for 1 h at room temperature before imaging.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab33912**).

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