abcam

Product datasheet

Anti-MK2 antibody [E341] - BSA and Azide free ab247272

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	Anti-MK2 antibody [E341] - BSA and Azide free
Description	Rabbit monoclonal [E341] to MK2 - BSA and Azide free
Host species	Rabbit
Specificity	This antibody recognises MAPKAP Kinase-2.
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF or IHC
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	ab247272 is the carrier-free version of **ab32567**. 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® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® 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® 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 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	E341
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab247272 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

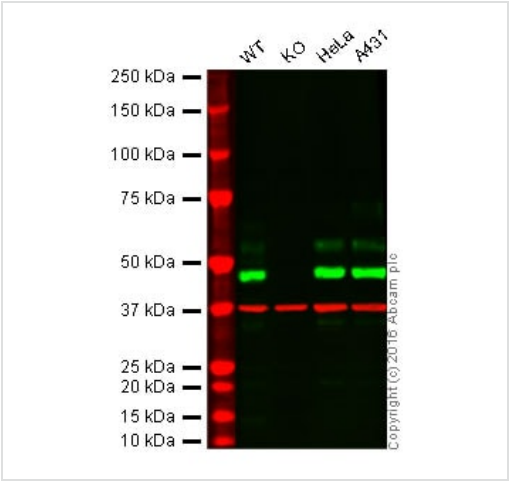
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa).

Application notes Is unsuitable for Flow Cyt,ICC/IF or IHC.

Target

Function	Its physiological substrate seems to be the small heat shock protein (HSP27/HSP25). In vitro can phosphorylate glycogen synthase at 'Ser-7' and tyrosine hydroxylase (on 'Ser-19' and 'Ser-40'). This kinase phosphorylates Ser in the peptide sequence, Hyd-X-R-X(2)-S, where Hyd is a large hydrophobic residue (By similarity). Mediates both ERK and p38 MAPK/MAPK14 dependent neutrophil responses. Participates in TNF alpha-stimulated exocytosis of secretory vesicles in neutrophils. Plays a role in phagocytosis-induced respiratory burst activity.
Tissue specificity	Expressed in all tissues examined.
Sequence similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. Contains 1 protein kinase domain.
Post-translational modifications	Phosphorylated and activated by MAP kinase.

Images



Western blot - Anti-MK2 antibody [E341] - BSA and Azide free (ab247272)

This data was developed using **ab32567**, the same antibody clone in a different buffer formulation.

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

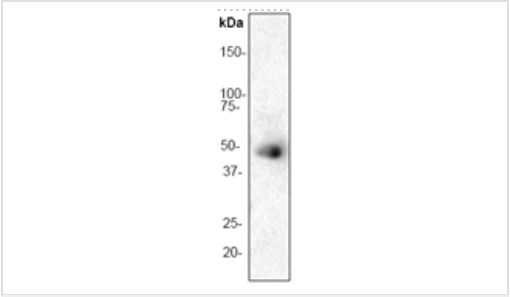
Lane 2: MAPKAP Kinase 2knockout HAP1 cell lysate (20 µg)

Lane 3: HeLa cell lysate (20 µg)

Lane 4: A431 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - **ab32567** observed at 48 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab32567 was shown to specifically react with MAPKAP Kinase 2 when MAPKAP Kinase 2 knockout samples were used. Wild-type and MAPKAP Kinase 2 knockout samples were subjected to SDS-PAGE. **ab32567** and **ab8245** (loading control to ProteinX2) were diluted to 1/500 and 1/1000 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.

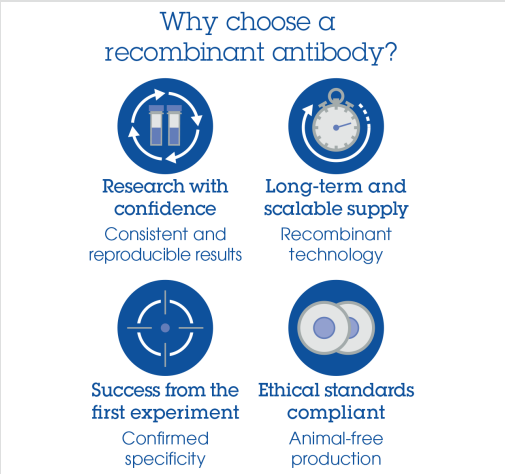


Western blot - Anti-MK2 antibody [E341] - BSA and Azide free (ab247272)

Anti-MK2 antibody [E341] (**ab32567**) at 1/1000 dilution + HeLa cell lysate

Predicted band size: 46 kDa
Observed band size: 46 kDa

This data was developed using **ab32567**, the same antibody clone in a different buffer formulation.



Anti-MK2 antibody [E341] - BSA and Azide free

(ab247272)

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