


Product datasheet

Anti-NEK7 antibody [EPR4901] - BSA and Azide free ab247860

KO VALIDATED Recombinant RabMAb[®]

4 Images

Overview

Product name	Anti-NEK7 antibody [EPR4901] - BSA and Azide free
Description	Rabbit monoclonal [EPR4901] to NEK7 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB Unsuitable for: ICC/IF, IHC-P or IP
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	<p>ab247860 is the carrier-free version of ab109433.</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
Clonality	Monoclonal
Clone number	EPR4901
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab247860 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

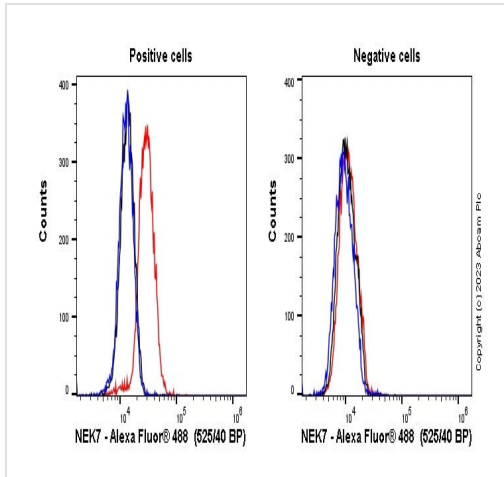
Application	Abreviews	Notes
Flow Cyt (Intra)		Use a concentration of 0.2 µg/ml. PFA fixation not recommended
WB		Use at an assay dependent concentration. Predicted molecular weight: 35 kDa.

Application notes Is unsuitable for ICC/IF, IHC-P or IP.

Target

Tissue specificity	Highly expressed in lung, muscle, testis, brain, heart, liver, leukocyte and spleen. Lower expression in ovary, prostate and kidney. No expression seen in small intestine.
Sequence similarities	Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily. Contains 1 protein kinase domain.
Cellular localization	Cytoplasm.

Images



Flow Cytometry (Intracellular) - Anti-NEK7 antibody [EPR4901] - BSA and Azide free (ab247860)

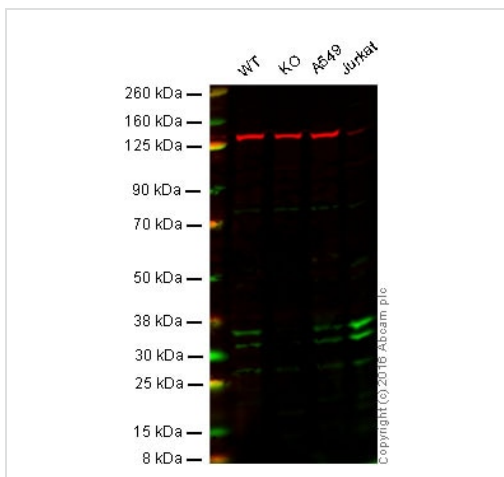
Flow cytometry overlay histogram showing left wild-type HAP1 WT and right NEK7 knockout HAP1 WT stained with ab247860 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilised with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (**ab109433**) (1×10^6 in 100 μ l at 0.2 μ g/ml (1/3135 dilution)) for 30min at 22°C.

The secondary antibody Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was incubated at 1/4000 dilution for 30min at 22°C

Isotype control antibody Recombinant Rabbit IgG, monoclonal [EPR25A] was used at the same concentration and conditions as the primary antibody (black line). Unlabelled sample was also used as a control (blue line).

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.

PFA fixation is not recommended.



Western blot - Anti-NEK7 antibody [EPR4901] - BSA and Azide free (ab247860)

This data was developed using **ab109433**, the same antibody clone in a different buffer formulation.

Lane 1: Wild-type HAP1 cell lysate (40 μ g)

Lane 2: NEK7 knockout HAP1 cell lysate (40 μ g)

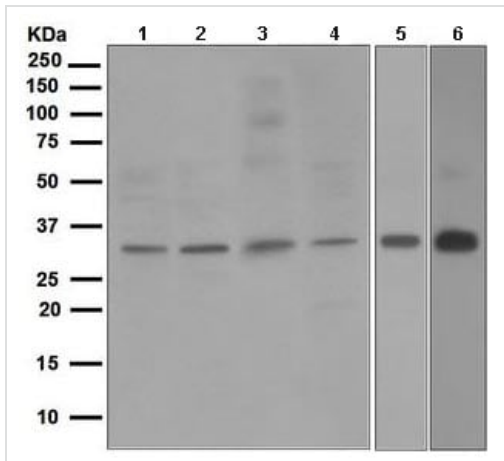
Lane 3: A549 cell lysate (20 μ g)

Lane 4: Jurkat cell lysate (20 μ g)

Lanes 1 - 4: Merged signal (red and green). Green - **ab109433** observed at 35 kDa. Red - loading control, **ab18058**, observed at 124 kDa.

ab109433 was shown to specifically react with NEK7 when NEK7 knockout samples were used. Wild-type and NEK7 knockout samples were subjected to SDS-PAGE. **ab109433** and **ab18058** (loading control to Vinculin) were diluted at 1/1000 and 1/10000 dilution 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-NEK7 antibody [EPR4901] - BSA and Azide free ([ab247860](#))

All lanes : Anti-NEK7 antibody [EPR4901] ([ab109433](#)) at 1/10000 dilution

Lane 1 : Human brain lysate

Lane 2 : HeLa cell lysate

Lane 3 : A549 cell lysate

Lane 4 : HepG2 cell lysate

Lane 5 : Fetal liver lysate

Lane 6 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 35 kDa

This data was developed using [ab109433](#), 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-NEK7 antibody [EPR4901] - BSA and Azide free ([ab247860](#))

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery

- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors