

## Product datasheet

# Anti-NEK7 antibody [EPR4900] - BSA and Azide free ab240065

**KO VALIDATED** Recombinant RabMAb

5 Images

### Overview

<b>Product name</b>	Anti-NEK7 antibody [EPR4900] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR4900] to NEK7 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, WB <b>Unsuitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Jurkat, A549, C6, RAW264.7, PC12 and NIH/3T3 cell lysates. Wild-type HAP1 cell lysate. IP: NIH/3T3 whole cell lysate.
<b>General notes</b>	<p>ab240065 is the carrier-free version of <a href="#">ab133514</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</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR4900
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab240065 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
<b>IP</b>		Use at an assay dependent concentration.
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 35 kDa.

**Application notes** Is unsuitable for IHC-P.

## Target

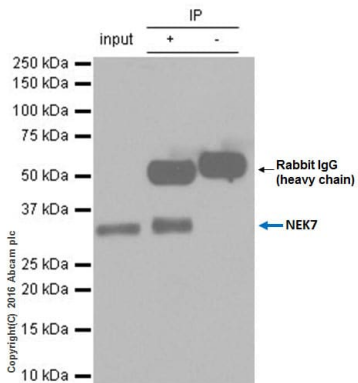
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<b>Tissue specificity</b>	Highly expressed in lung, muscle, testis, brain, heart, liver, leukocyte and spleen. Lower expression in ovary, prostate and kidney. No expression seen in small intestine.
<b>Sequence similarities</b>	Belongs to the protein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

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## Images

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Immunoprecipitation - Anti-NEK7 antibody  
[EPR4900] - BSA and Azide free (ab240065)

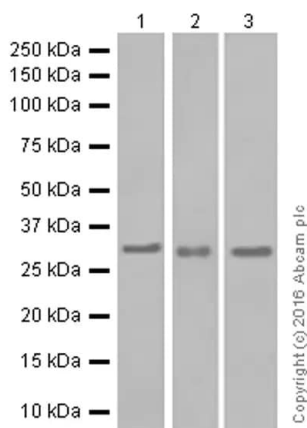
**ab133514** immunoprecipitating NEK7. 10µg of cell lysate was incubated with primary antibody at a dilution of 1/20 and VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at a dilution of 1/1000.

**Lane 1:** NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate 10ug

**Lane 2:** NIH/3T3 whole cell lysate

**Lane 3:** Rabbit monoclonal IgG (**ab172730**) instead of **ab133514** in NIH/3T3 whole cell lysate

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133514**).



Western blot - Anti-NEK7 antibody [EPR4900] -  
BSA and Azide free (ab240065)

**All lanes :** Anti-NEK7 antibody [EPR4900] (**ab133514**) at 1/10000 dilution

**Lane 1 :** Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate

**Lane 2 :** C6 (Rat glial tumor glial cell) whole cell lysate

**Lane 3 :** NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

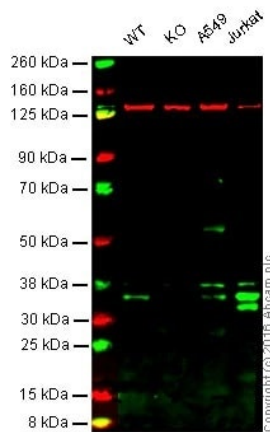
Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 35 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133514**).



Western blot - Anti-NEK7 antibody [EPR4900] - BSA and Azide free (ab240065)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133514](#)).

**Lane 1:** Wild-type HAP1 cell lysate (40 µg)

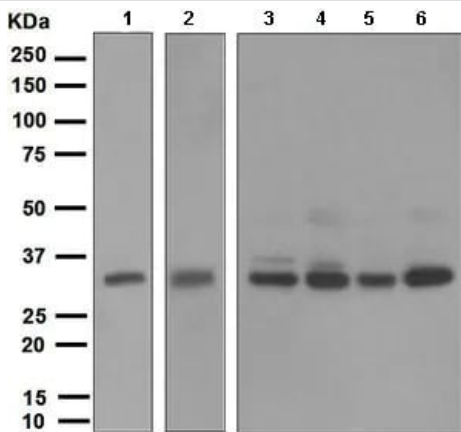
**Lane 2:** NEK7 knockout HAP1 cell lysate (40 µg)

**Lane 3:** A549 cell lysate (20 µg)

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

**Lanes 1 - 4:** Merged signal (red and green). Green - [ab133514](#) observed at 35 kDa. Red - loading control, [ab18058](#), observed at 124 kDa.

[ab133514](#) was shown to specifically react with NEK7 when NEK7 knockout samples were used. Wild-type and NEK7 knockout samples were subjected to SDS-PAGE. Ab133514 and [ab18058](#) (loading control to Vinculin) were diluted at 1/10000 and 1/10,000 dilution respectively and incubated overnight at 4C. 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 hour at room temperature before imaging.



Western blot - Anti-NEK7 antibody [EPR4900] - BSA and Azide free (ab240065)

**All lanes :** Anti-NEK7 antibody [EPR4900] ([ab133514](#)) at 1/1000 dilution

**Lane 1 :** Jurkat cell lysate

**Lane 2 :** A549 cell lysate

**Lane 3 :** C6 cell lysate

**Lane 4 :** RAW264.7 cell lysate

**Lane 5 :** PC12 cell lysate

**Lane 6 :** NIH/3T3 cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat-anti-rabbit HRP at 1/2000 dilution

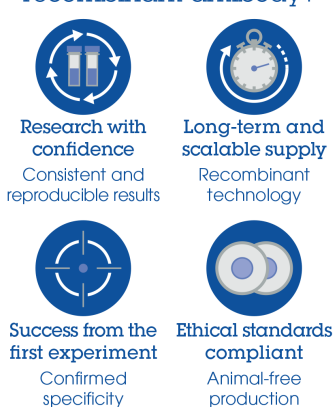
**Predicted band size:** 35 kDa

**Observed band size:** 32 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and

sodium azide ([ab133514](#)).

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 [EPR4900] - BSA and Azide free ([ab240065](#))

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

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