

## Product datasheet

# Anti-NEK7 antibody [EPR4900] ab133514

KO VALIDATED Recombinant RabMAb

★★★★☆ 2 Abreviews 30 References 5 Images

### Overview

<b>Product name</b>	Anti-NEK7 antibody [EPR4900]
<b>Description</b>	Rabbit monoclonal [EPR4900] to NEK7
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP <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>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 monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA

<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR4900
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab133514 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>WB</b>	★★★★★ (1)	1/10000. Predicted molecular weight: 35 kDa.
<b>IP</b>		1/10 - 1/100.

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

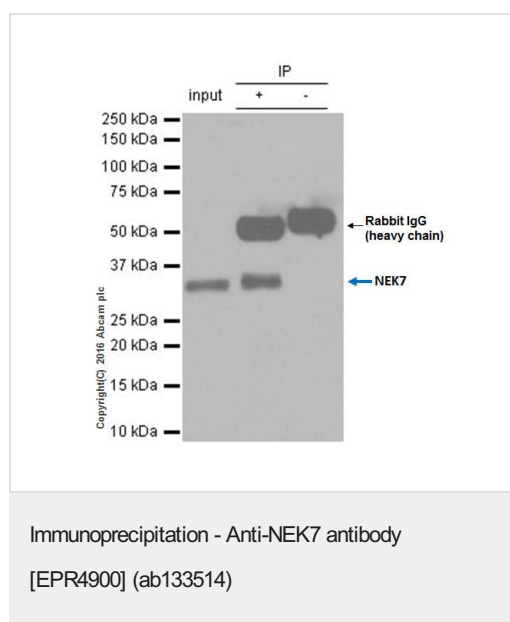
## Target

**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

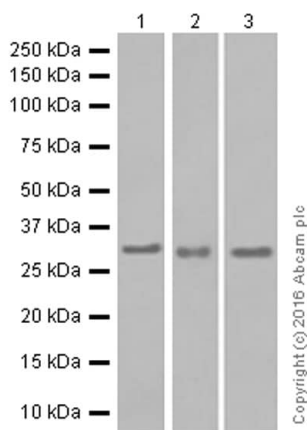


ab133514 immunoprecipitating NEK7. 10µg of cell lysate was incubated with primary antibody at a dilution of 1/20 and VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at a dilution of 1/1000.

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

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

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



Western blot - Anti-NEK7 antibody [EPR4900] (ab133514)

**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

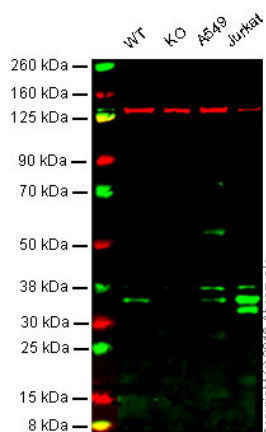
**Lane 3** : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

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



Western blot - Anti-NEK7 antibody [EPR4900] (ab133514)

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

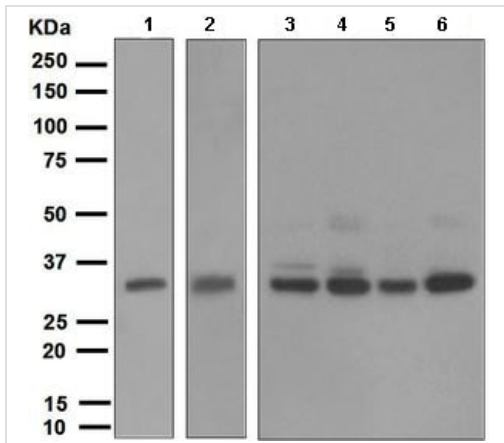
**Lane 2**: NEK7 knockout HAP1 cell lysate (40 µg)

**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<sup>®</sup> 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-NEK7 antibody [EPR4900]  
(ab133514)

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

Developed using the ECL technique.

**Predicted band size:** 35 kDa

**Observed band size:** 32 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-NEK7 antibody [EPR4900] (ab133514)

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