


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

KO 評価済 リコンビナント RabMAb

画像数 4

#### 製品の概要

製品名	Anti-NEK7 antibody [EPR4901] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR4901] to NEK7 - BSA and Azide free
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), WB <b>適用なし:</b> ICC/IF, IHC-P or IP
種交差性	<b>交差種:</b> Human <b>交差が予測される動物種:</b> Mouse, Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
特記事項	<p>ab247860 is the carrier-free version of <a href="#">ab109433</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 monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR4901
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee      Abpromise保証は、次のテスト済みアプリケーションにおけるab247860の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

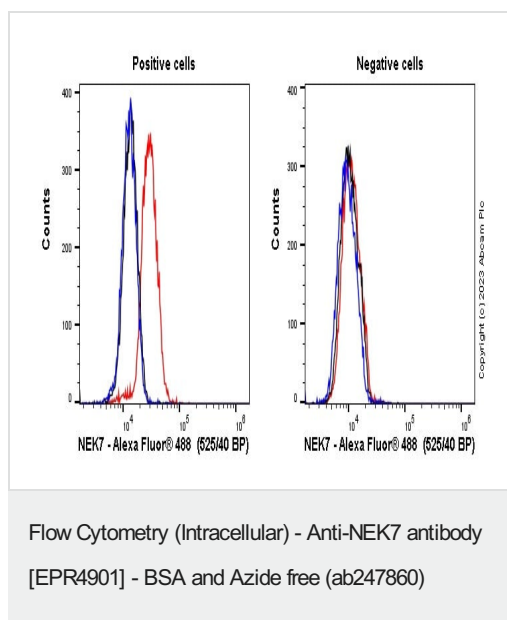
アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use a concentration of 0.2 µg/ml. PFA fixation not recommended
WB		Use at an assay dependent concentration. Predicted molecular weight: 35 kDa.

追加情報      Is unsuitable for ICC/IF, IHC-P or IP.

ターゲット情報

組織特異性	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.
配列類似性	Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily. Contains 1 protein kinase domain.
細胞内局在	Cytoplasm.

画像



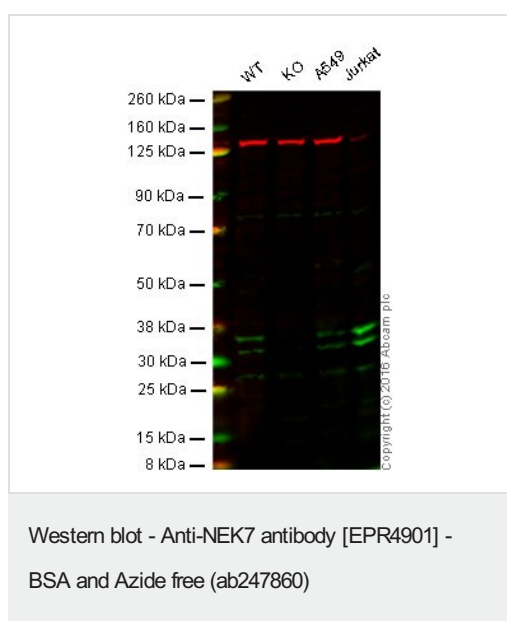
Flow cytometry overlay histogram showing left wild-type HAP1 WT and right NEK7 knockout HAP1 WT stained with ab247860 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilised with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS containing 10% normal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



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

**Lane 1:** Wild-type HAP1 cell lysate (40  $\mu$ g)

**Lane 2:** NEK7 knockout HAP1 cell lysate (40  $\mu$ g)

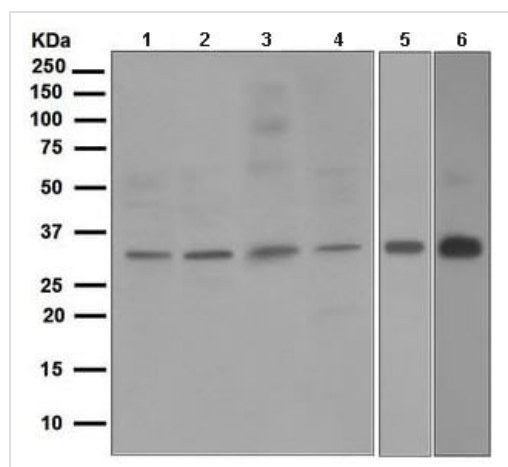
**Lane 3:** A549 cell lysate (20  $\mu$ g)

**Lane 4:** Jurkat cell lysate (20  $\mu$ 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"

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