

Anti-IP6K1 (phospho S118 + S121) antibody [EPR19852] - BSA and Azide free ab238170

Recombinant RabMAb

4 Images

Overview

Product name	Anti-IP6K1 (phospho S118 + S121) antibody [EPR19852] - BSA and Azide free
Description	Rabbit monoclonal [EPR19852] to IP6K1 (phospho S118 + S121) - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, Dot blot, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293T transfected with a His-tagged human IP6K1 (WT) expression vector, whole cell lysate.
General notes	<p>ab238170 is the carrier-free version of ab214816.</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	EPR19852
Isotype	IgG

Applications

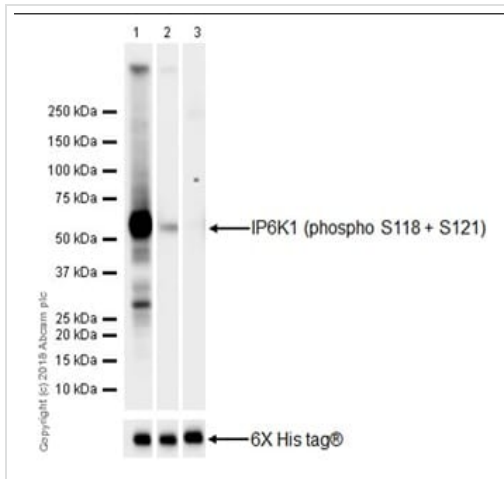
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab238170 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 52 kDa (predicted molecular weight: 50 kDa).
Dot blot		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

Function	Converts inositol hexakisphosphate (InsP6) to diphosphoinositol pentakisphosphate (InsP7/PP-InsP5). Converts 1,3,4,5,6-pentakisphosphate (InsP5) to PP-InsP4.
Sequence similarities	Belongs to the inositol phosphokinase (IPK) family.
Cellular localization	Cytoplasm. Nucleus.

Images



Western blot - Anti-IP6K1 (phospho S118 + S121) antibody [EPR19852] - BSA and Azide free (ab238170)

All lanes : Anti-IP6K1 (phospho S118 + S121) antibody [EPR19852] ([ab214816](#)) at 1/10000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with a His-tagged human IP6K1 (WT) expression vector, whole cell lysate

Lane 2 : HEK-293T transfected with a His-tagged human IP6K1 (WT) expression vector, whole cell lysate. The WB membrane was treated with alkaline phosphatase for 1h at 37°C

Lane 3 : HEK-293T transfected with a His-tagged human IP6K1 S118A+S121A mutant expression vector, whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 50 kDa

Observed band size: 52 kDa

Exposure time: 26 seconds

Blocking/diluting buffer: 5% NFDm/TBST.

The band at approximately 30 kDa likely represents degradation fragments of IP6K1 (pS118 and pS121) protein.

The plasmids were kindly provided by our collaborator Dr. Feng Rao NIBS.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab214816](#)).



Immunoprecipitation - Anti-IP6K1 (phospho S118 + S121) antibody [EPR19852] - BSA and Azide free (ab238170)

IP6K1 (phospho S118 + S121) was immunoprecipitated from 0.35 mg MOLT-4 (human lymphoblastic leukemia cell line) whole cell lysate with **ab214816** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab214816** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

Lane 1: MOLT-4 whole cell lysate 10 µg (Input).

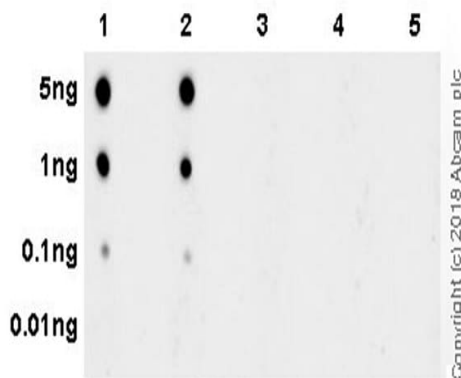
Lane 2: **ab214816** IP in MOLT-4 whole cell lysate (+).

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab214816** in MOLT-4 whole cell lysate (-).

Blocking/Dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 1 minute.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214816**).



Dot Blot - Anti-IP6K1 (phospho S118 + S121) antibody [EPR19852] - BSA and Azide free (ab238170)

Dot blot analysis of IP6K1 (phospho S118 + S121) labeled with **ab214816** at 1/1000 dilution. Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody was used at 1/100,000 dilution..

Lane 1: IP6K1 (phospho S118 + S121) peptide (aa114-125).

Lane 2: IP6K1 (phospho S118 + S121) peptide (aa116-127).

Lane 3: IP6K1 (phospho S118) peptide (aa114-127).

Lane 4: IP6K1 (phospho S121) peptide (aa114-127).

Lane 5: IP6K1 non-phospho peptide (aa114-127).

Exposure time: 58 seconds.

Blocking/Dilution buffer and concentration: 5% NFDm/TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214816**).

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-IP6K1 (phospho S118 + S121) antibody
[EPR19852] - BSA and Azide free (ab238170)

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