

Product datasheet

Anti-SIK3 antibody [EPR20880-249] α b227044

Recombinant RabMAb

6 Images

Overview

Product name	Anti-SIK3 antibody [EPR20880-249]
Description	Rabbit monoclonal [EPR20880-249] to SIK3
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: N41 transfected with scrambled siRNA control, SIK3 knockdown N41 and Neuro-2a whole cell lysate; Mouse hippocampus, Rat brain, Rat hippocampus, Human hippocampus, Rat liver and Mouse cortex tissue lysate. ICC/IF: Neuro-2a cells. Flow Cyt: Neuro-2a cells.
General notes	<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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20880-249

Isotype

IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab227044 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		1/1000. Predicted molecular weight: 140 kDa.
ICC/IF		1/50.
Flow Cyt		1/500.

Application notes

Is unsuitable for IHC-P or IP.

Target

Sequence similarities

Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily.
Contains 1 protein kinase domain.
Contains 1 UBA domain.

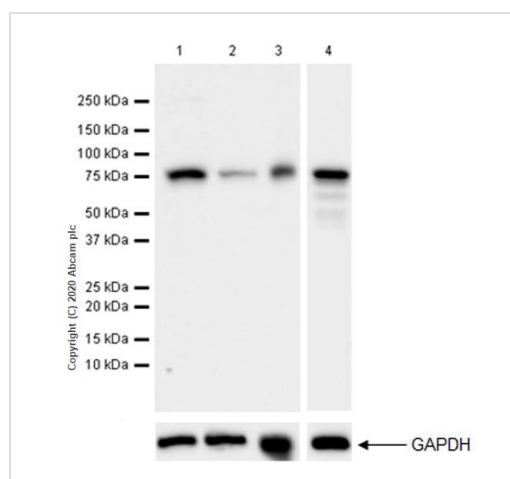
Post-translational modifications

Phosphorylated at Thr-163 by STK11/LKB1 in complex with STE20-related adapter-alpha (STRADA) pseudo kinase and CAB39.

Cellular localization

Cytoplasm. Locates to punctate structures within the cytoplasm on binding to YWHAZ.

Images



Western blot - Anti-SIK3 antibody [EPR20880-249] (ab227044)

All lanes : Anti-SIK3 antibody [EPR20880-249] (ab227044) at 1/1000 dilution

Lane 1 : N41 (Embryonic Mouse Hypothalamus Cell Line) transfected with scrambled siRNA control whole cell lysate

Lane 2 : SIK3 knockdown N41 whole cell lysate

Lane 3 : Mouse hippocampus tissue lysate

Lane 4 : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

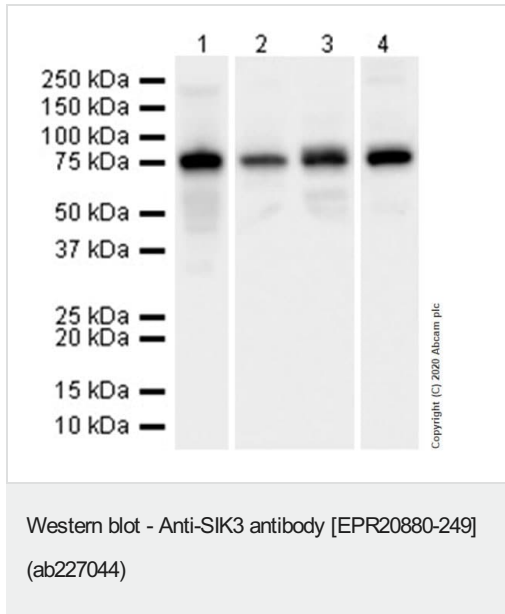
Predicted band size: 140 kDa

Observed band size: 70 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The control and SIK3 knockdown cell lysates were kindly provided by an anonymous collaborator.

Exposure time: Lanes 1-3: 26 seconds; Lane 4: 15 seconds.



All lanes : Anti-SIK3 antibody [EPR20880-249] (ab227044) at 1/1000 dilution

Lane 1 : Rat hippocampus tissue lysate

Lane 2 : Human hippocampus tissue lysate

Lane 3 : Rat liver tissue lysate

Lane 4 : Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

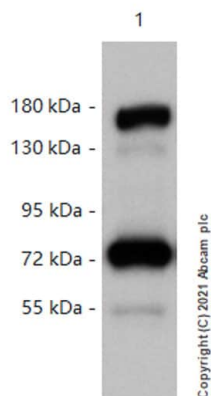
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 140 kDa

Observed band size: 70 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: Lane 1: 3 seconds; Lanes 2-4: 8 seconds.



Western blot - Anti-SIK3 antibody [EPR20880-249] (ab227044)

Anti-SIK3 antibody [EPR20880-249] (ab227044) at 0.789 µg/ml + Mouse cortex tissue lysate at 4 µg

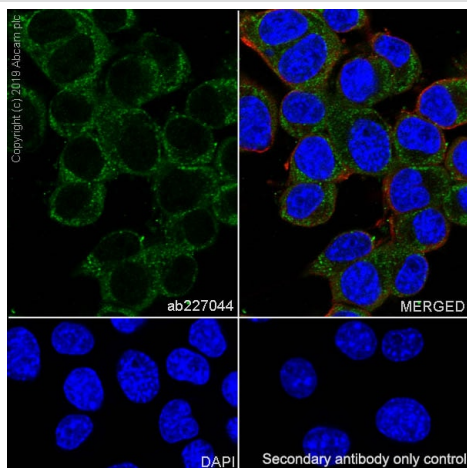
Predicted band size: 140 kDa

Observed band size: 150,70 kDa

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

Data was kindly provided by Dr. Qinghua Liu, NIBS.

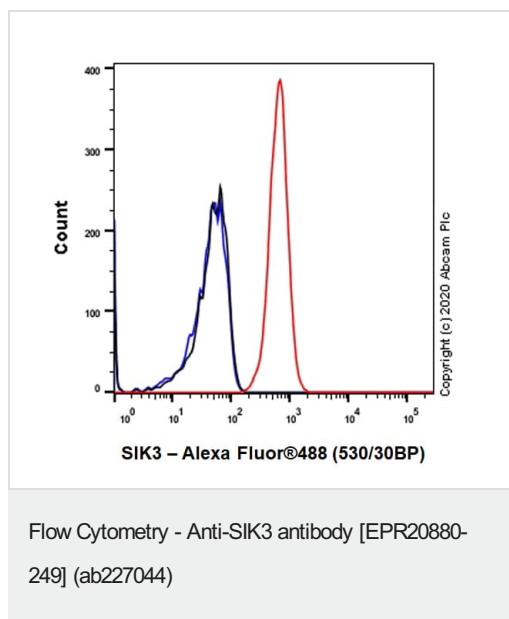
The 1st Ab working concentration was 5 µg/ml.



Immunocytochemistry/ Immunofluorescence - Anti-SIK3 antibody [EPR20880-249] (ab227044)





Immunocytochemical analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Neuro-2a cells labelling SIK3 with ab227044 at 1/50 (15.78 µg/ml) dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in Neuro-2a cells. Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) was used to counterstain tubulin at 1/200 (2.5 µg/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.



Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Neuro-2a (mouse neuroblastoma neuroblast) cells labelling SIK3 with ab227044 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-SIK3 antibody [EPR20880-249] (ab227044)

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