


Product datasheet

Anti-SIKE1 antibody [EPR14692] ab183509

KO VALIDATED Recombinant RabMAb[®]

6 Images

Overview

Product name	Anti-SIKE1 antibody [EPR14692]
Description	Rabbit monoclonal [EPR14692] to SIKE1
Host species	Rabbit
Tested applications	Suitable for: IP, IHC-P, WB
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	SH-SY5Y, HeLa and HEK-293T cell lysates; Human kidney tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14692
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab183509 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
IP		1/30 - 1/50.
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/10000 - 1/50000. Detects a band of approximately 24 kDa (predicted molecular weight: 24 kDa).

Target

Function

Physiological suppressor of IKK-epsilon and TBK1 that plays an inhibitory role in virus- and TLR3-triggered IRF3. Inhibits TLR3-mediated activation of interferon-stimulated response elements (ISRE) and the IFN-beta promoter. May act by disrupting the interactions of IKBKE or TBK1 with TICAM1/TRIF, IRF3 and DDX58/RIG-I. Does not inhibit NF-kappa-B activation pathways.

Tissue specificity

Widely expressed. Expressed in brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, small intestine, placenta, lung and leukocytes. Present in all cell lines tested (at protein level).

Sequence similarities

Belongs to the SIKE family.

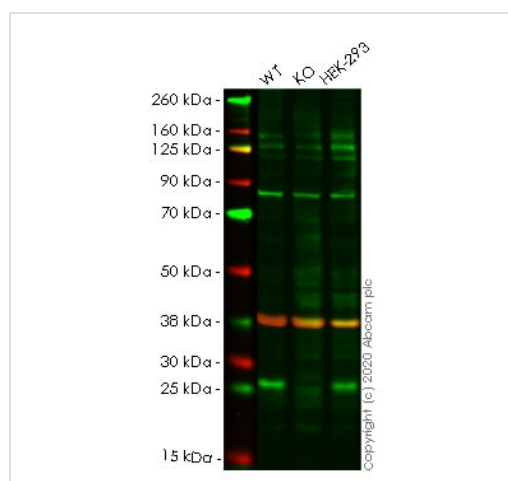
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Cytoplasm.

Images



Western blot - Anti-SIKE1 antibody [EPR14692] (ab183509)

All lanes : Anti-SIKE1 antibody [EPR14692] (ab183509) at 1/10000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : SIKE1 knockout HeLa cell lysate

Lane 3 : HEK-293 cell lysate

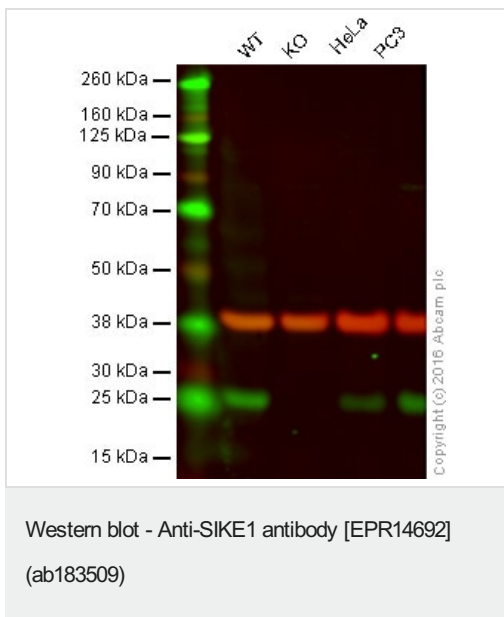
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 24 kDa

Lanes 1-3: Merged signal (red and green). Green - ab183509 observed at 25 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab183509 Rabbit monoclonal [EPR14692] to SIKE1 was shown to specifically react with Suppressor of IKBKE 1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265933** (knockout cell lysate **ab258188**) was used. Wild-type and Suppressor of IKBKE 1 knockout samples were subjected to SDS-PAGE. ab183509 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 10000 dilution and 1 in 20000 dilution respectively. 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 in 20000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-SIKE1 antibody [EPR14692] (ab183509) at 1/10000 dilution

Lane 1 : Wild-type HAP1 cell lysate

Lane 2 : SIKE1 knockout HAP1 cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : PC3 cell lysate

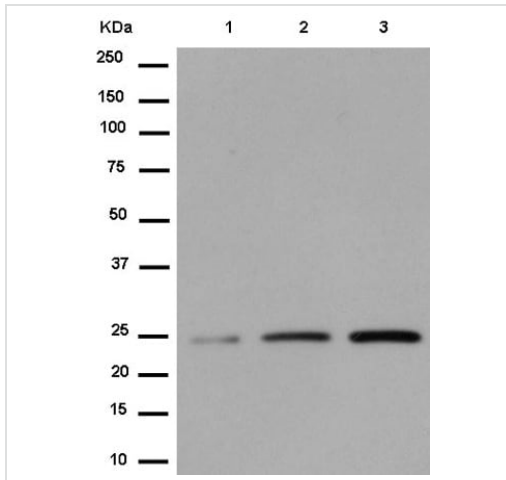
Lysates/proteins at 20 µg per lane.

Predicted band size: 24 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab183509 observed at 25 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab183509 was shown to specifically react with SIKE1 when SIKE1 knockout samples were used. Wild-type and SIKE1 knockout samples were subjected to SDS-PAGE. ab183509 and **ab8245** (loading control to GAPDH) were both diluted 1/10 000 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-SIKE1 antibody [EPR14692] (ab183509)

All lanes : Anti-SIKE1 antibody [EPR14692] (ab183509) at 1/20000 dilution

Lane 1 : SH-SY5Y cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : 293 cell lysate

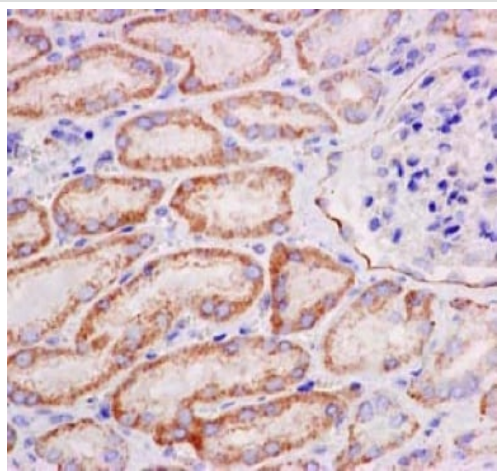
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 24 kDa

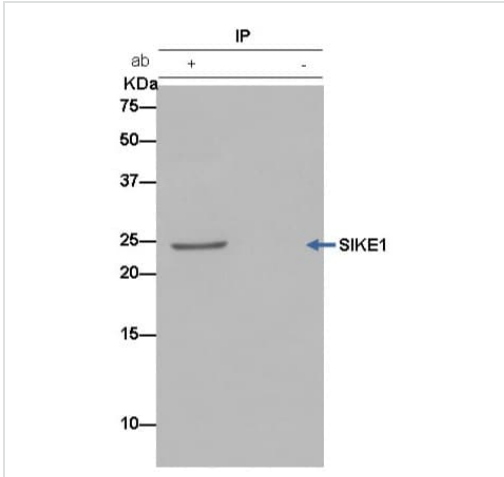
Additional bands at: 24 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SIKE1 antibody [EPR14692] (ab183509)

Immunohistochemical analysis of paraffin embedded Human kidney tissue labeling SIKE1 with ab183509 at 1/50.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Lysate from 293 cells was immunoprecipitated with ab183509 at a 1/50 dilution. For the subsequent blot, ab183509 used at a 1/10000 dilution with an anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at a 1/1500 dilution for the secondary. Blocking/ Dilution buffer: 5% NFDM/TBST. Lane 2: TBS instead of lysate.

Immunoprecipitation - Anti-SIKE1 antibody
[EPR14692] (ab183509)

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-SIKE1 antibody [EPR14692] (ab183509)

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

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