

Product datasheet

Anti-MLKL antibody [EPR17514] ab184718

KO VALIDATED Recombinant RabMAB

★★★★★ 4 Abreviews 4 References 6 Images

Overview

Product name	Anti-MLKL antibody [EPR17514]
Description	Rabbit monoclonal [EPR17514] to MLKL
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human MLKL aa 350 to the C-terminus. The exact sequence is proprietary. Database link: Q8NB16
	Run BLAST with Run BLAST with
Positive control	WB: HUVEC and HT-29 whole cell lysates; Human fetal kidney lysate. IHC-P: Human tonsil and colonic adenocarcinoma tissues.
General notes	Our RabMAB [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab[®] patents . This product is a recombinant rabbit monoclonal antibody .

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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17514
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab184718** 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
ICC/IF	★★★★★	1/200.
WB	★★★★★	1/1000. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).
IHC-P		1/400. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

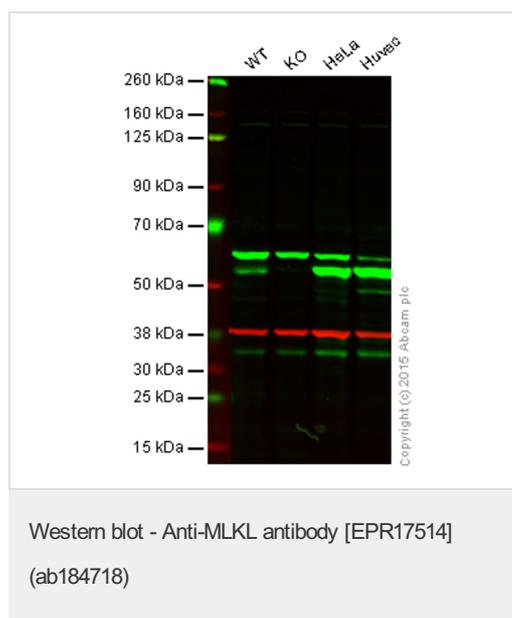
Sequence similarities

Belongs to the protein kinase superfamily.
Contains 1 protein kinase domain.

Domain

The protein kinase domain is predicted to be catalytically inactive.

Images



Lane 1: Wild-type HAP1 cell lysate (20 µg)

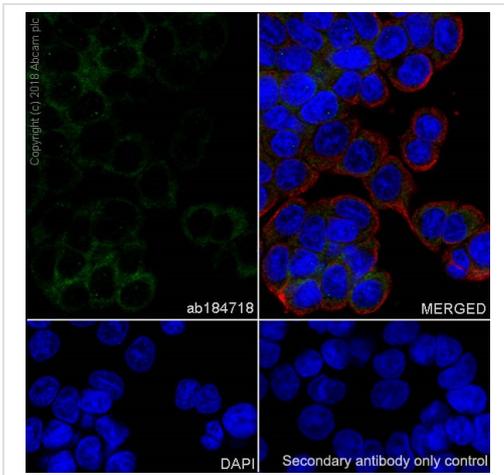
Lane 2: MLKL knockout HAP1 cell lysate (20 µg)

Lane 3: HeLa cell lysate (20 µg)

Lane 4: Huvec cell lysate (20 µg)

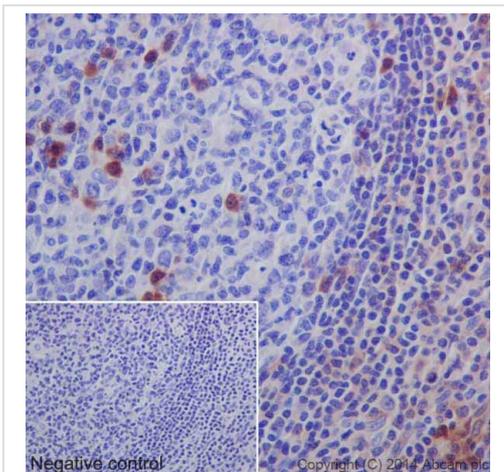
Lanes 1 - 4: Merged signal (red and green). Green - ab184718 observed at 55 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab184718 was shown to recognize MLKL in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when MLKL knockout samples were examined. Wild-type and MLKL knockout samples were subjected to SDS-PAGE. ab184718 and [ab8245](#) (loading control to GAPDH) were diluted to 1/1000 and 1/2000 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 1/10,000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-MLKL antibody [EPR17514] (ab184718)

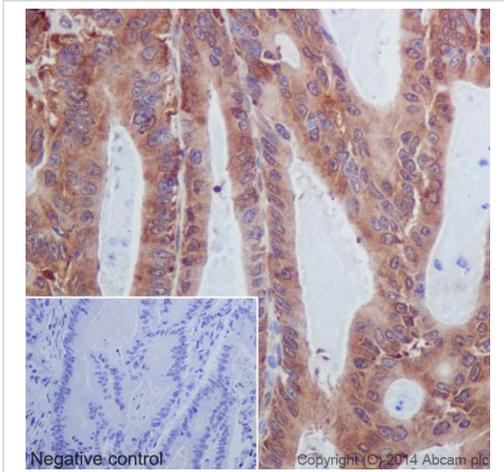
Ab184718 staining MLKL in HT-29 (Human colorectal adenocarcinoma epithelial cell) cells by Immunocytochemistry (ICC). Cells were fixed with 100% Methanol. Samples were incubated with primary antibody at 1/200 dilution (6.5µg/ml). An AlexaFluor® 488 Goat anti-Rabbit ([ab150077](#)) was used as the secondary antibody at 1/1000 dilution (2µg/ml). Ab195889 , Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used as the counterstain antibody (1/200 dilution, 2.5 µg/ml . DAPI was used as a nuclear counterstain. Confocal image showing cytoplasmic staining on HT-29 cell line.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MLKL antibody [EPR17514] (ab184718)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling MLKL with ab184718 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) secondary antibody ([ab97051](#)) at 1/500 dilution. Cytoplasmic staining on the lymphocytes of human tonsil is observed. Counter stained with Hematoxylin.

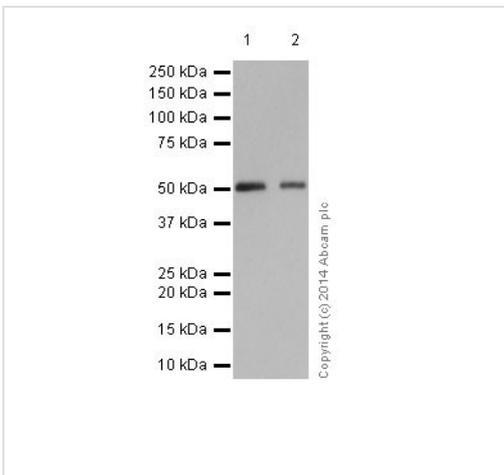
Negative control: Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.



Immunohistochemical analysis of paraffin-embedded Human colonic adenocarcinoma tissue labeling MLKL with ab184718 at 1/400 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) secondary antibody (ab97051) at 1/500 dilution. Cytoplasmic staining on tumor cells of human colonic adenocarcinoma is observed. Counter stained with Hematoxylin.

Negative control: Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MLKL antibody [EPR17514] (ab184718)



Western blot - Anti-MLKL antibody [EPR17514] (ab184718)

All lanes : Anti-MLKL antibody [EPR17514] (ab184718) at 1/20000 dilution

Lane 1 : HUVEC (Human umbilical vein endothelial cell line) whole cell lysate

Lane 2 : HT-29 (Human colorectal adenocarcinoma cells) whole cell lysate

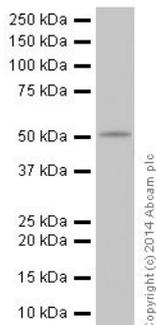
Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 54 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-MLKL antibody [EPR17514]
(ab184718)

Anti-MLKL antibody [EPR17514] (ab184718) at 1/1000 dilution +
Human fetal kidney lysate at 10 µg

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at
1/1000 dilution

Predicted band size: 54 kDa

Observed band size: 54 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

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