

# Anti-MLKL antibody [EPR17514] - BSA and Azide free ab211045

KO VALIDATED Recombinant RabMAb<sup>®</sup>

7 Images

### Overview

<b>Product name</b>	Anti-MLKL antibody [EPR17514] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR17514] to MLKL - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HUVEC, HT-29 and HeLa whole cell lysates; Human fetal kidney lysate. IHC-P: Human tonsil and colonic adenocarcinoma tissues.
<b>General notes</b>	ab211045 is the carrier-free version of <a href="#">ab184718</a> .

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.

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.

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.

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.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- 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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR17514
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab211045 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		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).

## Target

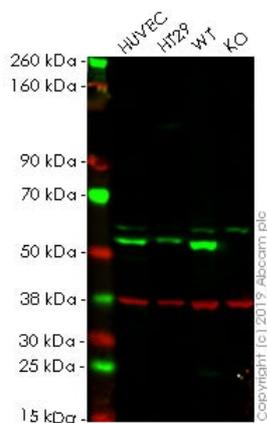
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<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. Contains 1 protein kinase domain.
<b>Domain</b>	The protein kinase domain is predicted to be catalytically inactive.

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## Images

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Western blot - Anti-MLKL antibody [EPR17514] - BSA and Azide free (ab211045)

**All lanes** : Anti-MLKL antibody [EPR17514] (**ab184718**) at 1/1000 dilution

**Lane 1** : HUVEC cell lysate

**Lane 2** : HT-29 cell lysate

**Lane 3** : Wild-type HeLa cell lysate

**Lane 4** : MLKL knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

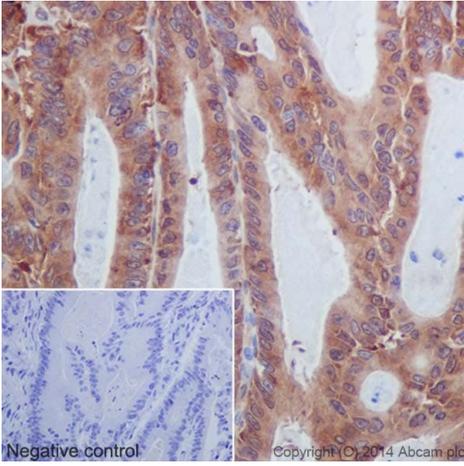
**Predicted band size:** 54 kDa

**Observed band size:** 54 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab184718**).

**Lanes 1 - 4:** Merged signal (red and green). Green - **ab184718** observed at 54 kDa. Red - loading control, **ab8245** observed at 37 kDa.

**ab184718** was shown to react with MLKL in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab255408** (knockout cell lysate **ab263788**) was used. Wild-type and MLKL knockout samples were subjected to SDS-PAGE. **ab184718** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 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.



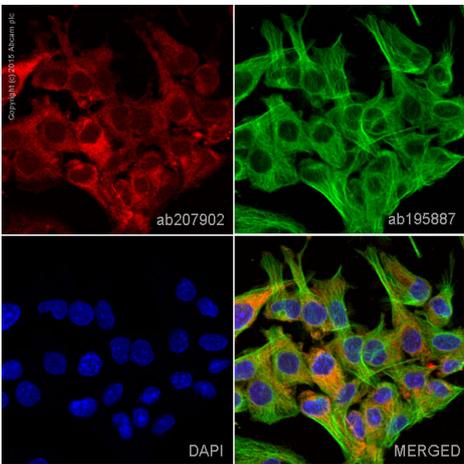
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MLKL antibody [EPR17514] - BSA and Azide free (ab211045)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab184718**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

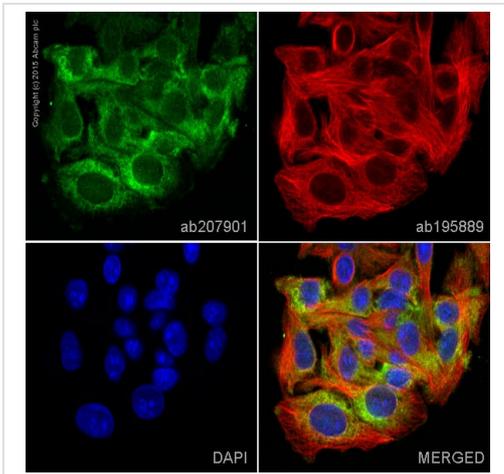


Immunocytochemistry/ Immunofluorescence - Anti-MLKL antibody [EPR17514] - BSA and Azide free (ab211045)

Clone EPR17514 (ab211045) has been successfully conjugated by Abcam. This image was generated using Anti-MLKL antibody [EPR17514] (Alexa Fluor® 647). Please refer to **ab207902** for protocol details.

**ab207902** staining MLKL in SW480 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with **ab207902** at a 1/50 dilution (shown in red) and **ab195887**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at a 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

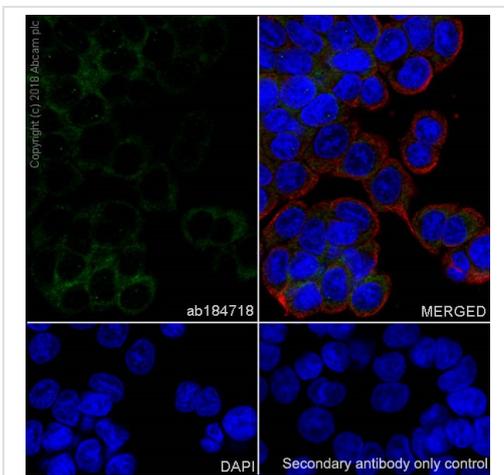


Immunocytochemistry/ Immunofluorescence - Anti-MLKL antibody [EPR17514] - BSA and Azide free (ab211045)

Clone EPR17514 (ab211045) has been successfully conjugated by Abcam. This image was generated using Anti-MLKL antibody [EPR17514] (Alexa Fluor® 488). Please refer to [ab207901](#) for protocol details.

[ab207901](#) staining MLKL in SW480 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with [ab207901](#) at a 1/100 dilution (shown in green) and [ab195889](#), Mouse monoclonal to alpha Tubulin (Alexa Fluor® 594), at a 1/250 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

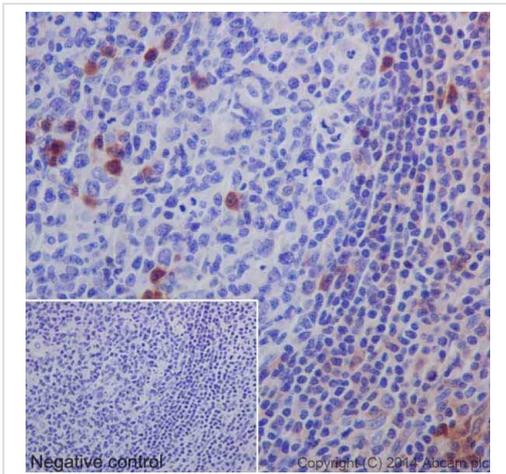
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Immunocytochemistry/ Immunofluorescence - Anti-MLKL antibody [EPR17514] - BSA and Azide free (ab211045)

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.

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab184718**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MLKL antibody [EPR17514] - BSA and Azide free (ab211045)

Why choose a recombinant antibody?

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

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

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