

Product datasheet

Anti-MALT1/MLT antibody [EP603Y] ab33921

KO VALIDATED

Recombinant

RabMAb

[11 References](#) [8 Images](#)

Overview

Product name	Anti-MALT1/MLT antibody [EP603Y]
Description	Rabbit monoclonal [EP603Y] to MALT1/MLT
Host species	Rabbit
Specificity	This antibody is predicted to detect splice isoform 2 based on sequence analysis.
Tested applications	Suitable for: Flow Cyt (Intra), IP, WB, ICC/IF Unsuitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human MALT1/MLT aa 1-100 (N terminal). The exact sequence is proprietary. Database link: Q9UDY8
Positive control	WB: Ramos, HeLa, K562. Jurkat whole cell lysate (ab7899). ICC/IF: Ramos cells. Flow Cyt (intra): Jurkat cells. IP: Ramos whole cell lysate.
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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</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. 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	EP603Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab33921 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

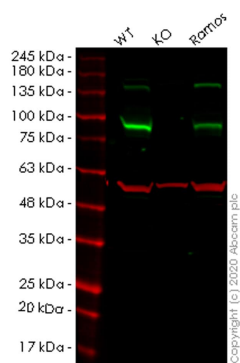
Application	Abreviews	Notes
Flow Cyt (Intra)		1/100. For unpurified use at 1/100 - 1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/50.
WB		1/1000 - 1/10000. Predicted molecular weight: 92 kDa.
ICC/IF		1/250.

Application notes Is unsuitable for IHC-P.

Target

Function	Enhances BCL10-induced activation of NF-kappa-B. Involved in nuclear export of BCL10. Binds to TRAF6, inducing TRAF6 oligomerization and activation of its ligase activity. Has ubiquitin ligase activity. MALT1-dependent BCL10 cleavage plays an important role in T-cell antigen receptor-induced integrin adhesion.
Tissue specificity	Highly expressed in peripheral blood mononuclear cells. Detected at lower levels in bone marrow, thymus and lymph node, and at very low levels in colon and lung.
Involvement in disease	Note=A chromosomal aberration involving MALT1 is recurrent in low-grade mucosa-associated lymphoid tissue (MALT lymphoma). Translocation t(11;18)(q21;q21) with BIRC2. This translocation is found in approximately 50% of cytogenetically abnormal low-grade MALT lymphoma.
Sequence similarities	Belongs to the peptidase C14B family. Contains 1 death domain. Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
Cellular localization	Cytoplasm > perinuclear region. Nucleus. Shuttles between the nucleus and cytoplasm. Found in perinuclear structures together with BCL10.

Images



Western blot - Anti-MALT1/MLT antibody [EP603Y]
(ab33921)

All lanes : Anti-MALT1/MLT antibody [EP603Y] (ab33921) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : MALT1 knockout HeLa cell lysate

Lane 3 : Ramos cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

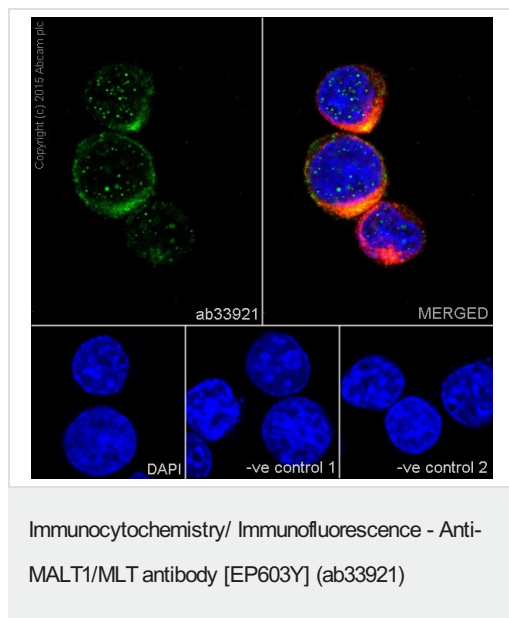
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

Predicted band size: 92 kDa

Observed band size: 92 kDa

Lanes 1-3: Merged signal (red and green). Green - ab33921 observed at 92 kDa. Red - loading control [ab7291](#) observed at 50 kDa.

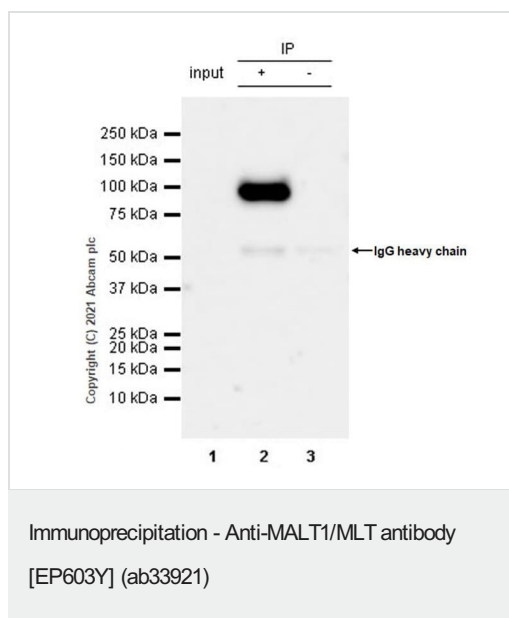
ab33921 Anti-MALT1/MLT antibody [EP603Y] was shown to specifically react with MALT1/MLT in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab264930](#) (knockout cell lysate [ab257149](#)) was used. Wild-type and MALT1/MLT knockout samples were subjected to SDS-PAGE. ab33921 and Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) 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.



Immunocytochemistry/Immunofluorescence analysis of Ramos cells labelling MALT1/MLT with purified ab33921 at 1/250. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/500) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500) were also used.

Control 1: Primary antibody (1/100) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



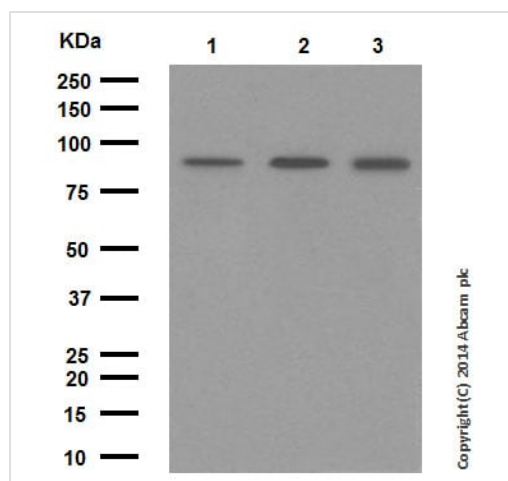
MALT1/MLT was immunoprecipitated from 0.35 mg of Ramos (human Burkitt's lymphoma B lymphocyte) whole cell lysate with ab33921 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab33921 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Lane 1: Ramos whole cell lysate 10 µg (Input).

Lane 2: ab33921 IP in Ramos whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab33921 in Ramos whole cell lysate.

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



Western blot - Anti-MALT1/MLT antibody [EP603Y] (ab33921)

All lanes : Anti-MALT1/MLT antibody [EP603Y] (ab33921) at 1/10000 dilution (purified)

Lane 1 : Ramos (Human Burkitt's lymphoma cell line) cell lysate

Lane 2 : HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate

Lane 3 : K562 (Human chronic myelogenous leukemia cell line from bone marrow) cell lysate

Lysates/proteins at 10 µg per lane.

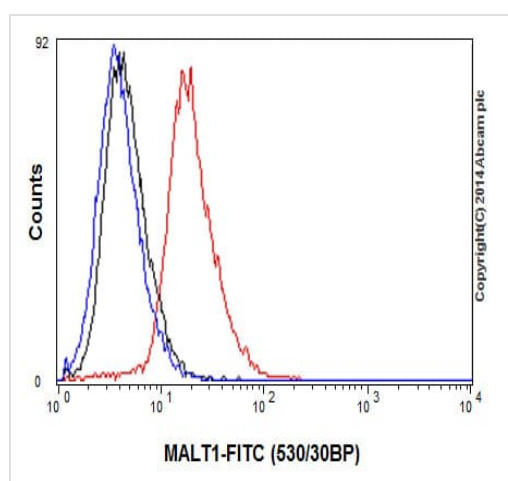
Secondary

All lanes : Peroxidase conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 92 kDa

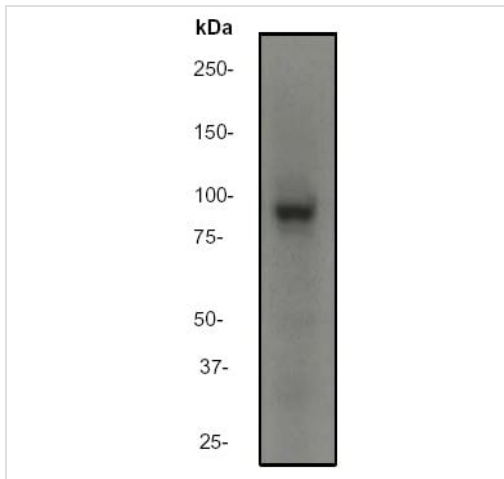
Observed band size: 92 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-MALT1/MLT antibody [EP603Y] (ab33921)

Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia cell line from peripheral blood) cells labelling MALT1/MLT with purified ab33921 at 1/100 (red). Cells were fixed with 80% methanol. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.

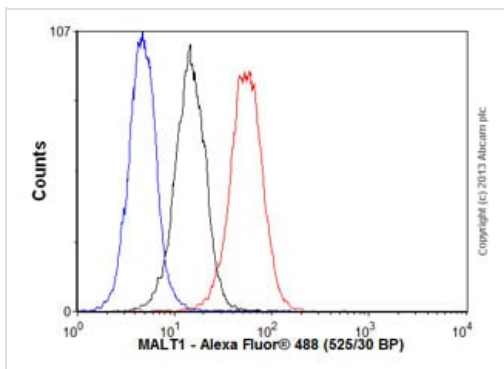


Western blot - Anti-MALT1/MLT antibody [EP603Y] (ab33921)

Anti-MALT1/MLT antibody [EP603Y] (ab33921) at 1/2000 dilution (unpurified) + Jurkat (Human T cell leukemia cell line from peripheral blood) cell lysate

Predicted band size: 92 kDa

Observed band size: 92 kDa



Flow Cytometry (Intracellular) - Anti-MALT1/MLT antibody [EP603Y] (ab33921)

Overlay histogram showing Jurkat (Human T cell leukemia cell line from peripheral blood) cells stained with unpurified ab33921 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (unpurified ab33921, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (**ab150077**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

This antibody gave a positive signal in Jurkat cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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-MALT1/MLT antibody [EP603Y] (ab33921)

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