abcam

Product datasheet

Anti-PSMB10/MECL1 antibody [EPR14902] ab183506





12 References 6 Images

Overview

Product name Anti-PSMB10/MECL1 antibody [EPR14902]

Rabbit monoclonal [EPR14902] to PSMB10/MECL1 **Description**

Host species Rabbit

Tested applications Suitable for: Flow Cyt (Intra), WB, IHC-P

Species reactivity Reacts with: Human

Predicted to work with: Mouse, Rat

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

WB: HeLa, Daudi, HuT 78 and Raji cell lysates; Human fetal spleen and thymus tissue lysates. Positive control

IHC-P: Human kidney adenocarcinoma tissue. Flow Cyt (intra): Daudi cells.

General notes 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® 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

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long Storage instructions

term. Avoid freeze / thaw cycle.

Storage buffer pH: 7.2

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity Protein A purified

Clonality Monoclonal Clone number EPR14902

Isotype IgG

Applications

The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab183506 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)		1/90. ab172730 - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 27 kDa (predicted molecular weight: 29 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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Function The proteasome is a multicatalytic proteinase complex which is characterized by its ability to

cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. This subunit is involved in

antigen processing to generate class I binding peptides.

Sequence similaritiesBelongs to the peptidase T1B family.

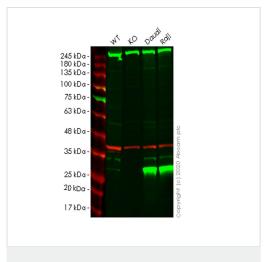
Developmental stage Highly expressed in immature dendritic cells (at protein level).

Post-translational Autocleaved. The resulting N-terminal Thr residue of the mature subunit is responsible for the

modifications nucleophile proteolytic activity.

Cellular localization Cytoplasm. Nucleus.

Images



Western blot - Anti-PSMB10/MECL1 antibody [EPR14902] (ab183506)

All lanes : Anti-PSMB10/MECL1 antibody [EPR14902] (ab183506) at 1/1000 dilution

Lane 1: Wild-type HeLa cell lysate

Lane 2: PSMB10 knockout HeLa cell lysate

Lane 3 : Daudi cell lysate
Lane 4 : Raji cell lysate

Lysates/proteins at 20 µg per lane.

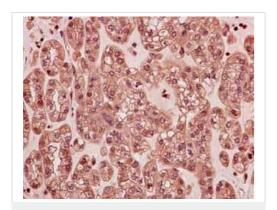
Secondary

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

Predicted band size: 29 kDa Observed band size: 29 kDa

Lanes 1-4: Merged signal (red and green). Green - ab183506 observed at 29 kDa. Red - loading control <u>ab8245</u> observed at 36 kDa.

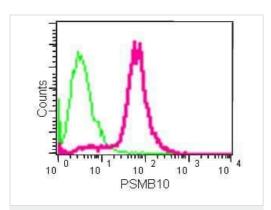
ab183506 Anti-PSMB10/MECL1 antibody [EPR14902] was shown to specifically react with PSMB10/MECL1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab264923 (knockout cell lysate ab258145) was used. Wild-type and PSMB10/MECL1 knockout samples were subjected to SDS-PAGE. ab183506 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 paraffinembedded sections) - Anti-PSMB10/MECL1 antibody [EPR14902] (ab183506)

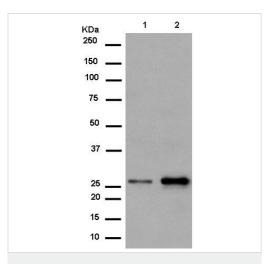
Immunohistochemical analysis of paraffin-embedded Human Kidney adenocarcinoma tissue labeling PSMB10/MECL1 with ab183506 at 1/100 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.

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



Flow Cytometry (Intracellular) - Anti-PSMB10/MECL1 antibody [EPR14902] (ab183506)

Intracellular flow cytometric analysis of Daudi cells (2% paraformaldehyde-fixed) labeling PSMB10/MECL1 with ab183506 at 1/90 dilution (red) or a rabbit lgG (negative) (green), followed by Goat anti rabbit lgG (FITC) secondary at 1/150 dilution.



Western blot - Anti-PSMB10/MECL1 antibody [EPR14902] (ab183506)

All lanes : Anti-PSMB10/MECL1 antibody [EPR14902] (ab183506) at 1/1000 dilution

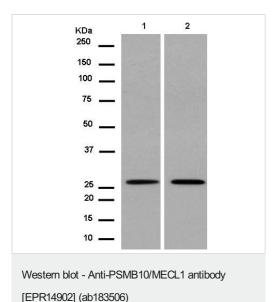
Lane 1 : Human fetal spleen tissue lysate
Lane 2 : Human fetal thymus tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 29 kDa



All lanes: Anti-PSMB10/MECL1 antibody [EPR14902] (ab183506) at 1/5000 dilution

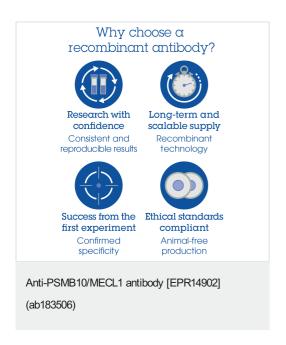
Lane 1 : HuT 78 cell line lysate
Lane 2 : Raji cell line lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 29 kDa



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