abcam

Product datasheet

Anti-CD9 antibody [MEM-61] ab2215

4 Abreviews 49 References 3 Images

Overview

Product name	Anti-CD9 antibody [MEM-61]
Description	Mouse monoclonal [MEM-61] to CD9
Host species	Mouse
Tested applications	**Suitable for:** IHC-P, Mass Cytometry, Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus corresponding to Human CD9. Pre-B line Nalm-6
Positive control	Prostate IHC-P: Human lung FFPE tissue sections.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	This product has been purified from tissue culture supernatant. Purity >95% by SDS-PAGE.
Clonality	Monoclonal
Clone number	MEM-61
Myeloma	unknown
Isotype	IgG1
Light chain type	unknown

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab2215 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
IHC-P	★☆☆☆☆ **(1)**	Use a concentration of 20 µg/ml.
Mass Cytometry		Use at an assay dependent concentration.
Flow Cyt		Use a concentration of 1 - 4 µg/ml. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function Involved in platelet activation and aggregation. Regulates paranodal junction formation. Involved in cell adhesion, cell motility and tumor metastasis. Required for sperm-egg fusion.

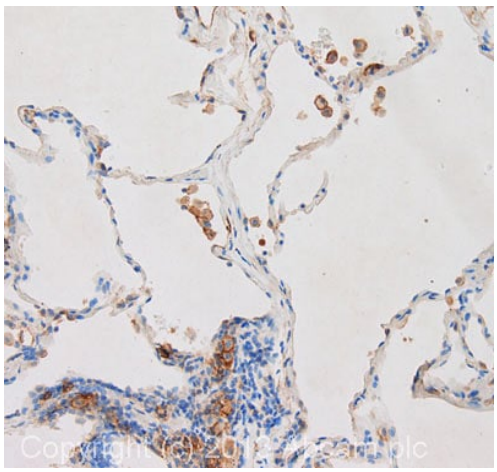
Tissue specificity Expressed by a variety of hematopoietic and epithelial cells.

Sequence similarities Belongs to the tetraspanin (TM4SF) family.

Post-translational modifications Protein exists in three forms with molecular masses between 22 and 27 kDa, and is known to carry covalently linked fatty acids.

Cellular localization Membrane.

Images



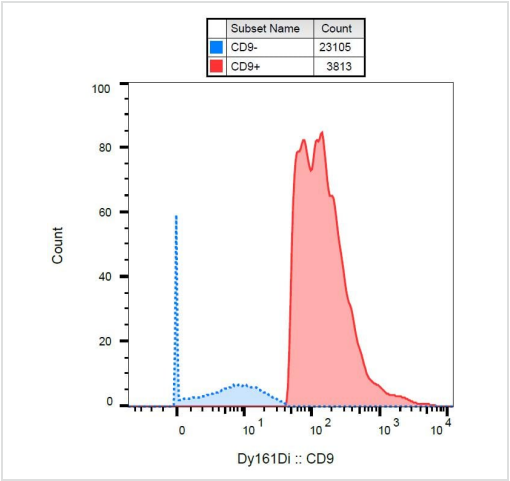
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD9 antibody [MEM-61] (ab2215)

IHC image of ab2215 staining in human lung formalin fixed paraffin embedded tissue section, performed on a Leica Bond system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab2215, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

Flow Cytometry - Anti-CD9 antibody [MEM-61] (ab2215)

Overlay histogram showing Jurkat cells stained with ab2215 (red line). The cells were fixed with 4% paraformaldehyde (10 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 (ab2215, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Mass Cytometry - Anti-CD9 antibody [MEM-61] (ab2215)

Mass cytometry (surface staining) analysis of human peripheral blood mononucleocytes after Ficoll-Paque separation with anti-human CD9 (MEM-61) Dy161.

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