

# **CD166 Polyclonal Antibody**

**Catalog # AP73579** 

## **Specification**

# **CD166 Polyclonal Antibody - Product Information**

Application WB, IHC-P Primary Accession Q13740

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

# **CD166 Polyclonal Antibody - Additional Information**

### Gene ID 214

#### **Other Names**

ALCAM; MEMD; CD166 antigen; Activated leukocyte cell adhesion molecule; CD166

#### Dilution

WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~ $\sim$ N/A

#### **Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

# **Storage Conditions**

-20°C

## **CD166 Polyclonal Antibody - Protein Information**

### Name ALCAM

**Synonyms** MEMD {ECO:0000303|PubMed:9502422}

## **Function**

Cell adhesion molecule that mediates both heterotypic cell- cell contacts via its interaction with CD6, as well as homotypic cell- cell contacts (PubMed:<a

href="http://www.uniprot.org/citations/15048703" target="\_blank">15048703</a>, PubMed:<a href="http://www.uniprot.org/citations/15496415" target="\_blank">15496415</a>, PubMed:<a href="http://www.uniprot.org/citations/16352806" target="\_blank">16352806</a>, PubMed:<a href="http://www.uniprot.org/citations/23169771" target="\_blank">23169771</a>, PubMed:<a href="http://www.uniprot.org/citations/23169771" target="\_blank">23169771</a>

href="http://www.uniprot.org/citations/24945728" target="\_blank">24945728</a>, PubMed:<a href="http://www.uniprot.org/citations/7760007" target=" blank">7760007</a>). Promotes T-cell

activation and proliferation via its interactions with CD6 (PubMed:<a

 $href="http://www.uniprot.org/citations/15048703" target="\_blank">15048703</a>, PubMed:<a href="http://www.uniprot.org/citations/16352806" target="\_blank">16352806</a>, PubMed:<a href="http://www.uniprot.org/citations/24945728" target="_blank">24945728</a>). Contributes$ 



to the formation and maturation of the immunological synapse via its interactions with CD6 (PubMed:<a href="http://www.uniprot.org/citations/15294938" target="\_blank">15294938</a>, PubMed:<a href="http://www.uniprot.org/citations/16352806" target="\_blank">16352806</a>). Mediates homotypic interactions with cells that express ALCAM (PubMed:<a href="http://www.uniprot.org/citations/15496415" target=" blank">15496415</a>, PubMed:<a href="http://www.uniprot.org/citations/16352806" target="blank">16352806</a>). Acts as a ligand for the LILRB4 receptor, enhancing LILRB4-mediated inhibition of T cell proliferation (PubMed:<a href="http://www.uniprot.org/citations/29263213" target=" blank">29263213</a>). Required for normal hematopoietic stem cell engraftment in the bone marrow (PubMed: <a href="http://www.uniprot.org/citations/24740813" target="\_blank">24740813</a>). Mediates attachment of dendritic cells onto endothelial cells via homotypic interaction (PubMed:<a href="http://www.uniprot.org/citations/23169771" target="blank">23169771</a>). Inhibits endothelial cell migration and promotes endothelial tube formation via homotypic interactions (PubMed:<a href="http://www.uniprot.org/citations/15496415" target=" blank">15496415</a>, PubMed:<a href="http://www.uniprot.org/citations/23169771" target="\_blank">23169771</a>). Required for normal organization of the lymph vessel network. Required for normal hematopoietic stem cell engraftment in the bone marrow. Plays a role in hematopoiesis; required for normal numbers of hematopoietic stem cells in bone marrow. Promotes in vitro osteoblast proliferation and differentiation (By similarity). Promotes neurite extension, axon growth and axon guidance; axons grow preferentially on surfaces that contain ALCAM. Mediates outgrowth and pathfinding for retinal ganglion cell axons (By similarity).

### **Cellular Location**

Cell membrane; Single-pass type I membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:Q61490}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q61490}. Note=Detected at the immunological synapse, i.e, at the contact zone between antigen-presenting dendritic cells and T-cells (PubMed:15294938, PubMed:16352806). Colocalizes with CD6 and the TCR/CD3 complex at the immunological synapse (PubMed:15294938).

## **Tissue Location**

Detected on hematopoietic stem cells derived from umbilical cord blood (PubMed:24740813). Detected on lymph vessel endothelial cells, skin and tonsil (PubMed:23169771). Detected on peripheral blood monocytes (PubMed:15048703). Detected on monocyte- derived dendritic cells (at protein level) (PubMed:16352806). Detected at low levels in spleen, placenta, liver (PubMed:9502422). Expressed by activated T-cells, B-cells, monocytes and thymic epithelial cells (PubMed:7760007). Isoform 1 and isoform 3 are detected in vein and artery endothelial cells, astrocytes, keratinocytes and artery smooth muscle cells (PubMed:15496415). Expressed by neurons in the brain Restricted expression in tumor cell lines. Detected in highly metastasizing melanoma cell lines (PubMed:9502422)

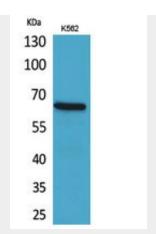
### CD166 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

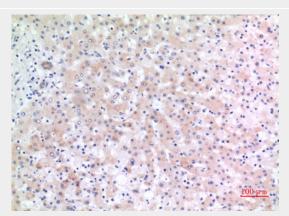
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# CD166 Polyclonal Antibody - Images

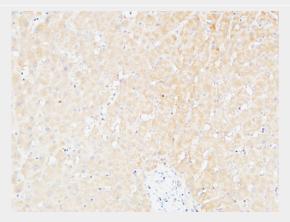




Western Blot analysis of K562 cells using CD166 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

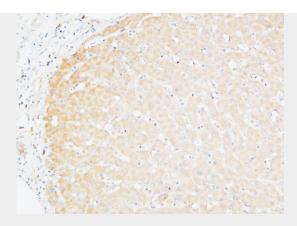


Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

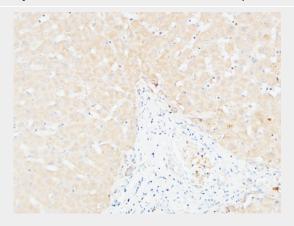


Immunohistochemical analysis of paraffin-embedded Human Liver. 1, Antibody was diluted at 1:200(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

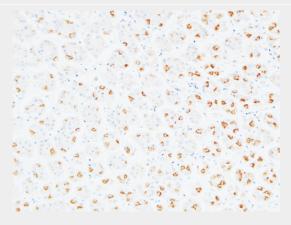




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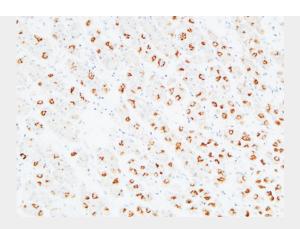


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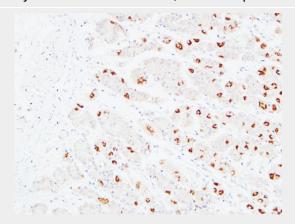


Immunohistochemical analysis of paraffin-embedded Human stomach. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

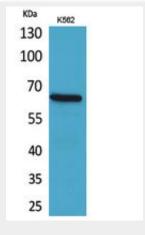




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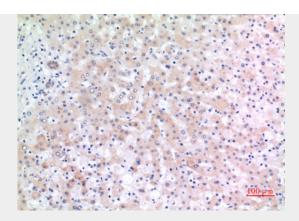


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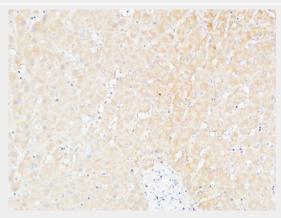


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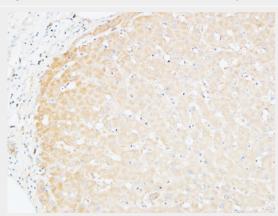




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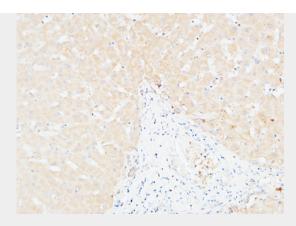


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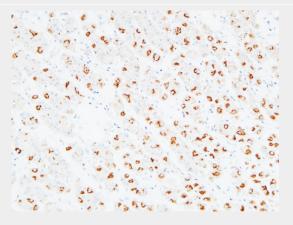




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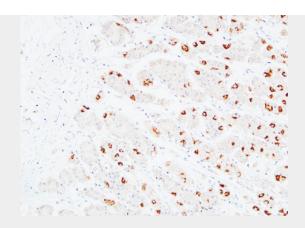


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