

## CD166 Polyclonal Antibody

Catalog # AP73579

### Specification

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#### CD166 Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	<a href="#">Q13740</a>
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~~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/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

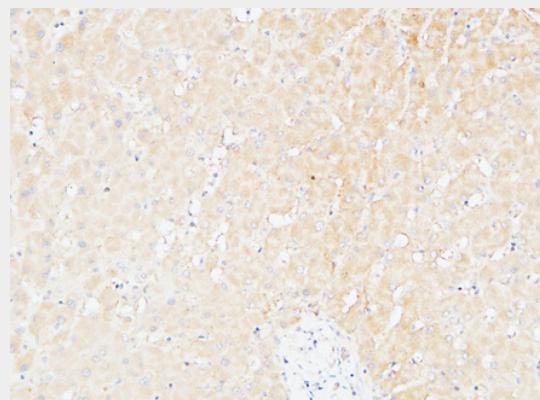
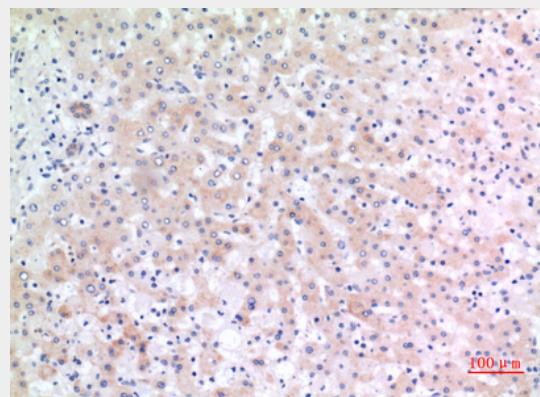
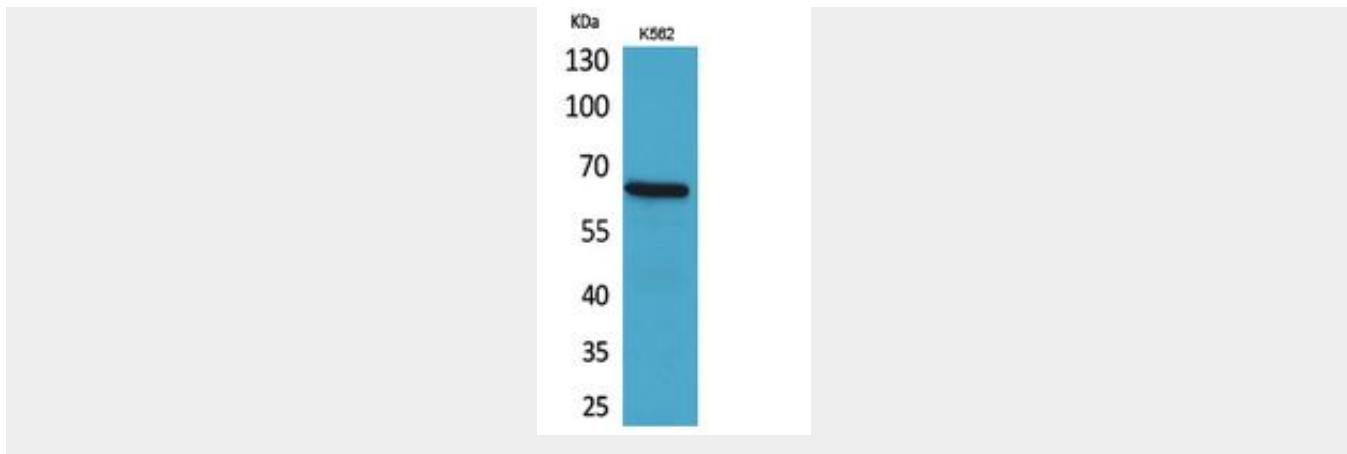
Detected on hematopoietic stem cells derived from umbilical cord blood (PubMed:24740813). Detected on lymph vessel endothelial cells, skin and tonsil (PubMed:23169771). Detected on peripheral blood monocytes (PubMed:15048703). Detected on monocyte-derived dendritic cells (at protein level) (PubMed:16352806). 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)

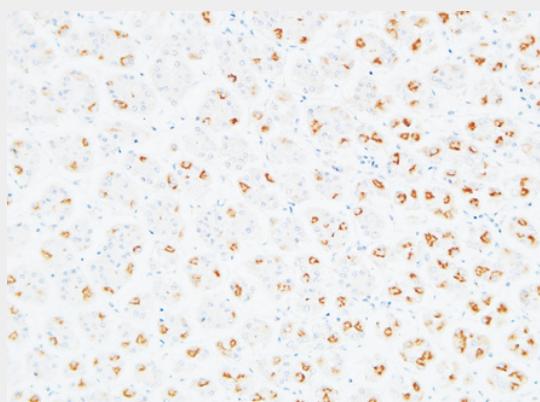
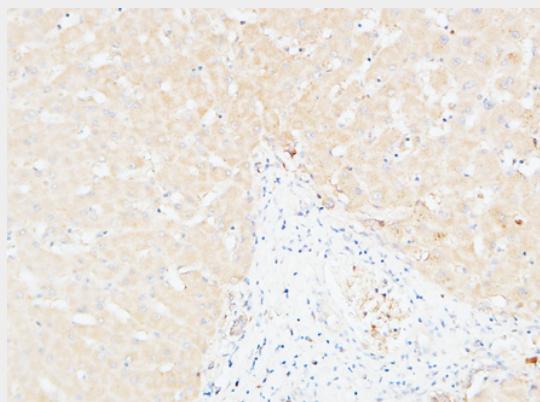
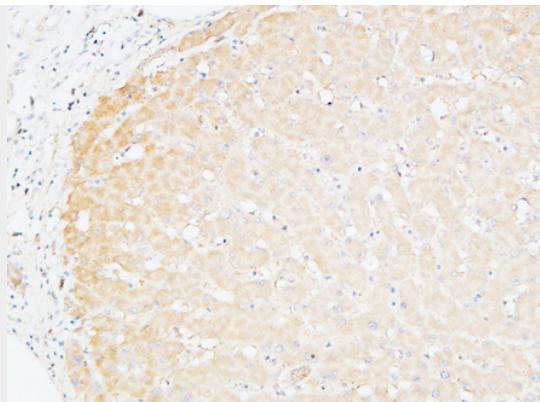
### CD166 Polyclonal Antibody - Protocols

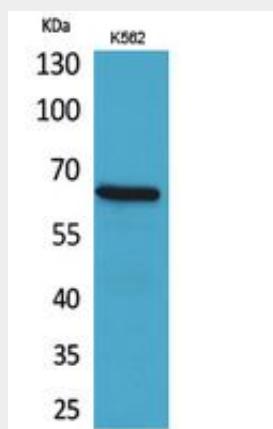
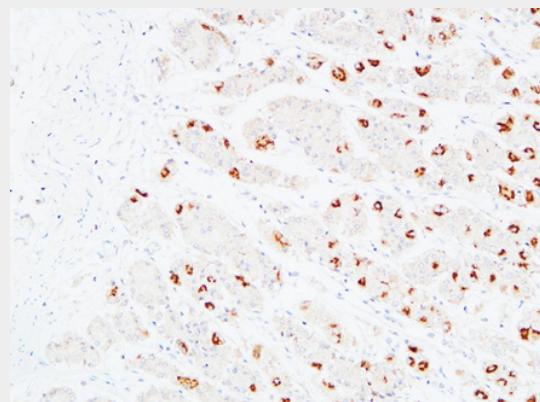
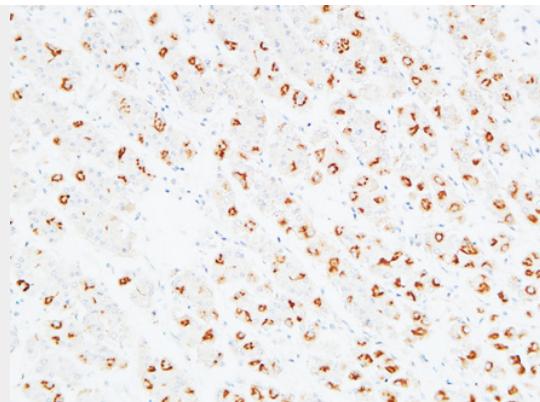
Provided below are standard protocols that you may find useful for product applications.

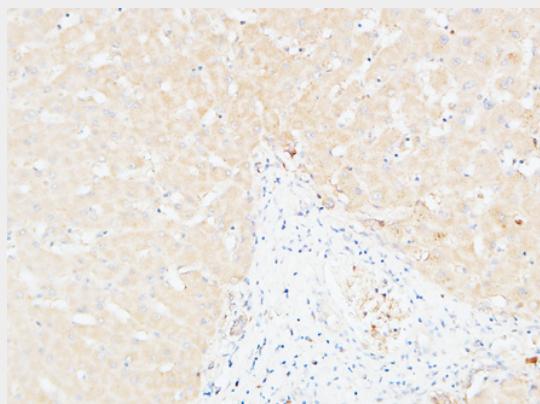
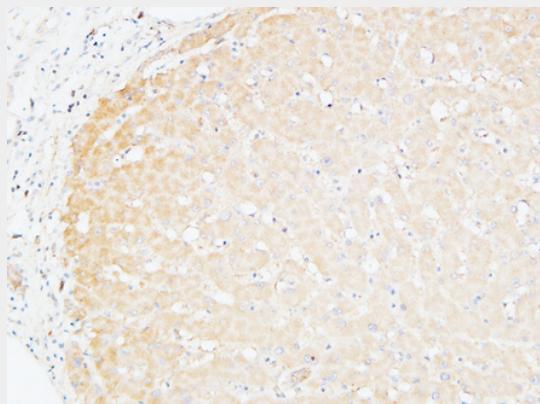
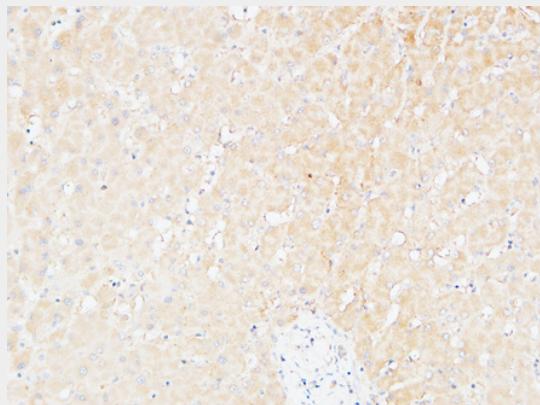
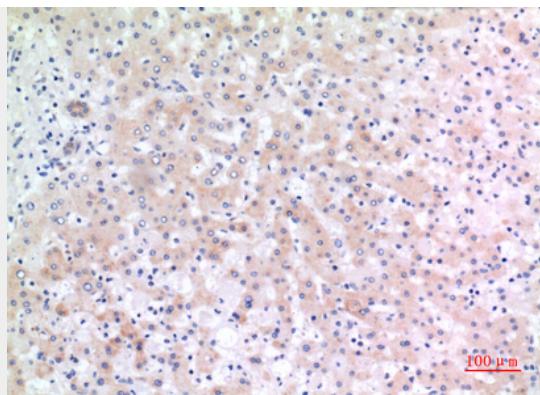
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

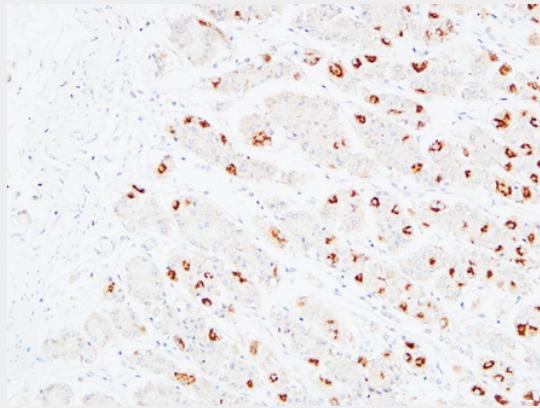
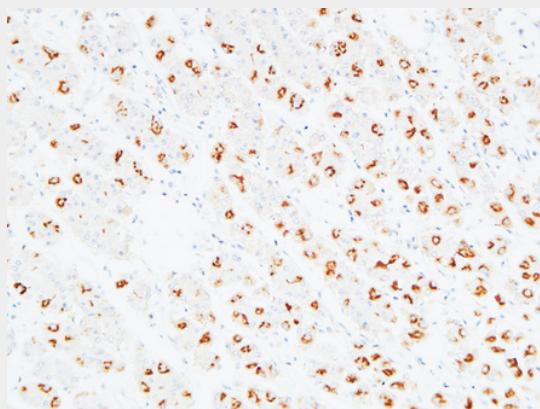
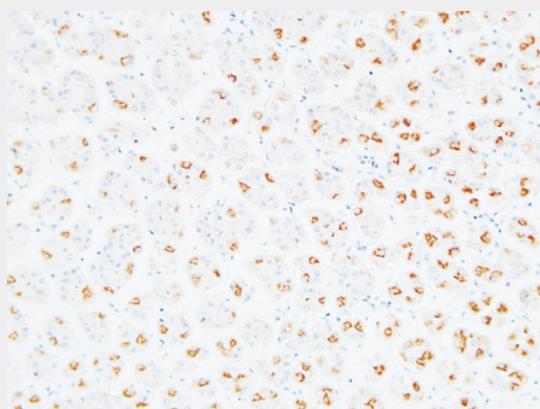
### CD166 Polyclonal Antibody - Images











### CD166 Polyclonal Antibody - Background

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attachment of dendritic cells onto endothelial cells via homotypic interaction (PubMed:23169771). Inhibits endothelial cell migration and promotes endothelial tube formation via homotypic interactions (PubMed:15496415, PubMed:23169771). 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).