

# Rabbit Anti-CD166 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP52264

## Product Information

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<b>Application</b>	WB, IHC-F, IF, E
<b>Primary Accession</b>	<a href="#">Q13740</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	65102
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human CD166
<b>Epitope Specificity</b>	451-583/583
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Membrane; Single-pass type I membrane protein.
<b>SIMILARITY</b>	Contains 3 Ig-like C2-type (immunoglobulin-like) domains.Contains 2 Ig-like V-type (immunoglobulin-like) domains.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	CD166 is a member of the Ig superfamily and is expressed on activated T-cells, B cells and other cells including thymic epithelial cells, fibroblasts, keratinocytes and neurons. CD6 has been identified as a receptor for CD166. The expression of CD166 is up-regulated in low-grade prostate tumors and down-regulated in high-grade tumors; may play role in progression of prostate cancer.

## Additional Information

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<b>Gene ID</b>	214
<b>Other Names</b>	MEMD; CD166; CD166 antigen; Activated leukocyte cell adhesion molecule; ALCAM
<b>Target/Specificity</b>	Spleen, placenta, liver, and weakly in liver. Expressed by activated T-cells, B-cells, monocytes and thymic epithelial cells. Expressed by neurons in the brain. Restricted expression in tumor cell lines. Preferentially expressed in highly metastasizing melanoma cell lines.
<b>Dilution</b>	WB=1:500-2000,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 µg/Test,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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## Protein Information

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<b>Name</b>	ALCAM
<b>Synonyms</b>	MEMD {ECO:0000303   PubMed:9502422}
<b>Function</b>	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="#">15048703</a> , PubMed: <a href="#">15496415</a> , PubMed: <a href="#">16352806</a> , PubMed: <a href="#">23169771</a> , PubMed: <a href="#">24945728</a> , PubMed: <a href="#">7760007</a> ). Promotes T-cell activation and proliferation via its interactions with CD6 (PubMed: <a href="#">15048703</a> , PubMed: <a href="#">16352806</a> , PubMed: <a href="#">24945728</a> ). Contributes to the formation and maturation of the immunological synapse via its interactions with CD6 (PubMed: <a href="#">15294938</a> , PubMed: <a href="#">16352806</a> ). Mediates homotypic interactions with cells that express ALCAM (PubMed: <a href="#">15496415</a> , PubMed: <a href="#">16352806</a> ). Acts as a ligand for the LILRB4 receptor, enhancing LILRB4-mediated inhibition of T cell proliferation (PubMed: <a href="#">29263213</a> ). Required for normal hematopoietic stem cell engraftment in the bone marrow (PubMed: <a href="#">24740813</a> ). Mediates attachment of dendritic cells onto endothelial cells via homotypic interaction (PubMed: <a href="#">23169771</a> ). Inhibits endothelial cell migration and promotes endothelial tube formation via homotypic interactions (PubMed: <a href="#">15496415</a> , PubMed: <a href="#">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).
<b>Cellular Location</b>	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).
<b>Tissue Location</b>	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)

## Background

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Cell adhesion molecule that binds to CD6. Involved in neurite extension by neurons via heterophilic and homophilic interactions. May play a role in the binding of T- and B-cells to activated leukocytes, as well as in

interactions between cells of the nervous system.

## References

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Bowen M.A.,et al.J. Exp. Med. 181:2213-2220(1995).

Ikeda K.,et al.J. Biol. Chem. 279:55315-55323(2004).

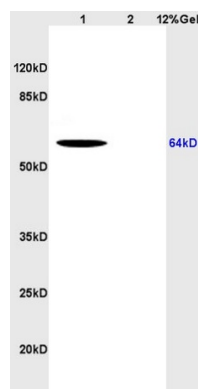
Abe Y.,et al.Submitted (APR-2006) to the EMBL/GenBank/DDBJ databases.

Muzny D.M.,et al.Nature 440:1194-1198(2006).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

## Images

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Lane 1: human colon carcinoma lysates Lane 2: rat brain lysates probed with Anti CD166 Polyclonal Antibody, Unconjugated (AP52264) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 64kD. Observed band size: 64kD.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.