

**CD166 (PN0352) Nb-FC recombinant antibody**

<b>Catalog No :</b>	YA0126
<b>Reactivity :</b>	Human
<b>Applications :</b>	ELISA
<b>Target :</b>	CD166
<b>Gene Name :</b>	ALCAM MEMD
<b>Protein Name :</b>	CD166 antigen (Activated leukocyte cell adhesion molecule) (CD antigen CD166)
<b>Human Gene Id :</b>	214
<b>Human Swiss Prot No :</b>	Q13740
<b>Immunogen :</b>	Purified recombinant Human CD166
<b>Specificity :</b>	This recombinant monoclonal antibody can detects endogenous levels of CD166 protein.
<b>Formulation :</b>	Phosphate-buffered solution
<b>Source :</b>	Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell
<b>Dilution :</b>	ELISA 1:5000-100000
<b>Purification :</b>	Recombinant Expression and Affinity purified
<b>Concentration :</b>	Please check the information on the tube
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
<b>Cell Pathway :</b>	Cell adhesion molecules (CAMs);
<b>Background :</b>	This gene encodes activated leukocyte cell adhesion molecule (ALCAM), also

known as CD166 (cluster of differentiation 166), which is a member of a subfamily of immunoglobulin receptors with five immunoglobulin-like domains (VVC2C2C2) in the extracellular domain. This protein binds to T-cell differentiation antigens CD6, and is implicated in the processes of cell adhesion and migration. Multiple alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, Aug 2011]

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**Function :**

domain: The CD6 binding site is located in the N-terminal Ig-like domain. 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. similarity: Contains 2 Ig-like V-type (immunoglobulin-like) domains. similarity: Contains 3 Ig-like C2-type (immunoglobulin-like) domains. tissue specificity: 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.

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**Subcellular Location :**

Cell membrane ; Single-pass type I membrane protein . Cell projection, axon . Cell projection, dendrite . 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). .; [Isoform 3]: Secreted .

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**Expression :**

Detected on hematopoietic stem cells derived from umbilical cord blood (PubMed:2474813). Detected on lymph vessel endothelial cells, skin and tonsil (PubMed:23169771). Detected on peripheral blood monocytes (PubMed:154873). Detected on monocyte-derived dendritic cells (at protein level) (PubMed:1635286). Detected at low levels in spleen, placenta, liver (PubMed:952422). Expressed by activated T-cells, B-cells, monocytes and thymic epithelial cells (PubMed:7767). 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:952422).

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