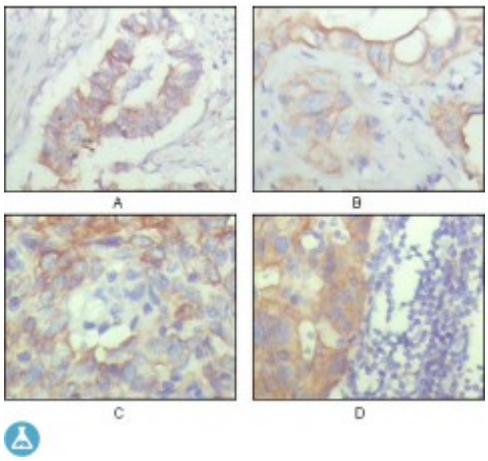
Anti-CD166 antibody



Description	Mouse monoclonal to CD166.

Model	STJ97908
Host	Mouse
Reactivity	Human
Applications	ELISA, IHC
Immunogen	Purified recombinant fragment of CD166 (aa405-524) expressed in E. Coli.
Immunogen Region	405-524aa
Gene ID	214
Gene Symbol	ALCAM
Dilution range	IHC 1:200-1:1000ELISA 1:10000
Specificity	CD166 Monoclonal Antibody detects endogenous levels of CD166 protein.
Tissue Specificity	Detected on hematopoietic stem cells derived from umbilical cord blood . Detected on lymph vessel endothelial cells, skin and tonsil . Detected on peripheral blood monocytes . Detected on monocyte-derived dendritic cells (at protein level) . Detected at low levels in spleen, placenta, liver . Expressed by activated T-cells, B-cells, monocytes and thymic epithelial cells . Isoform 1 and isoform 3 are detected in vein and artery endothelial cells, astrocytes, keratinocytes and artery smooth muscle cells . Ex
Purification	Affinity purification
Clone ID	10F1G12
Note	For Research Use Only (RUO).

Protein Name	CD166 antigen Activated leukocyte cell adhesion molecule CD antigen CD166
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1
Formulation	Ascitic fluid containing 0.03% sodium azide.
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:400OMIM:601662
Alternative Names	CD166 antigen Activated leukocyte cell adhesion molecule CD antigen CD166
Function	Cell adhesion molecule that mediates both heterotypic cell-cell contacts via its interaction with CD6, as well as homotypic cell-cell contacts . Promotes T-cell activation and proliferation via its interactions with CD6 . Contributes to the formation and maturation of the immunological synapse via its interactions with CD6 . Mediates homotypic interactions with cells that express ALCAM . Required for normal hematopoietic stem cell engraftment in the bone marrow . Mediates attachment of dendritic cells onto endothelial cells via homotypic interaction . Inhibits endothelial cell migration and promotes endothelial tube formation via homotypic interactions . 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 . 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 . Isoform 3: Inhibits activities of membrane-bound isoforms by competing for the same interaction partners. Inhibits cell attachment via homotypic interactions. Promotes endothelial cell migration. Inhibits endothelial cell tube formation.
Sequence and Domain Family	The CD6 binding site is located in the N-terminal Ig-like domain.
Cellular Localization	Cell membrane 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 . Colocalizes with CD6 and the TCR/CD3 complex at the immunological synapse . Isoform 3: Secreted
Post-translational Modifications	Glycosylated.