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CD248 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6756b

Product Information

Application	WB, FC, E
Primary Accession	Q9HCU0
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	80859
Antigen Region	625-654

Additional Information

Gene ID	57124
Other Names	Endosialin, Tumor endothelial marker 1, CD248, CD248, CD164L1, TEM1
Target/Specificity	This CD248 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 625-654 amino acids from the C-terminal region of human CD248.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD248 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD248
Synonyms	CD164L1, TEM1
Function	Cell surface glycoprotein involved in various biological processes including angiogenesis, immune response modulation, and tissue remodeling and repair. Participates in pericyte proliferation through positive modulation of the PDGF receptor signaling pathway (PubMed:20484976). Acts as a scaffold

	for factor X, triggering allosteric changes and the spatial re-alignment of factor X with the TF-factor VIIa complex, thereby enhancing coagulation activation. Modulates the insulin signaling pathway by interacting with insulin receptor/INSR and by diminishing its capacity to be autophosphorylated in response to insulin. Also regulates LPS-induced inflammatory response in macrophages by favoring the production of proinflammatory cytokines. In human, negatively regulates T-cell proliferation compared with stromal cells where it increases proliferation (PubMed:21466550).
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Expressed in tumor endothelial cells but absent or barely detectable in normal endothelial cells. Expressed in metastatic lesions of the liver and during angiogenesis of corpus luteum formation and wound healing. Expressed in vascular endothelial cells of malignant tumors but not in normal blood vessels. Expressed in stromal fibroblasts. Strongly expressed in pericytes (PubMed:20484976) Expressed on stromal cells and cells with lymphoid morphology such a T- cells (PubMed:21466550).

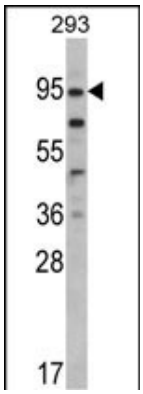
Background

CD248 is believed to play a role in tumor angiogenesis. CD248 is being investigated as a potential target for cancer treatment.

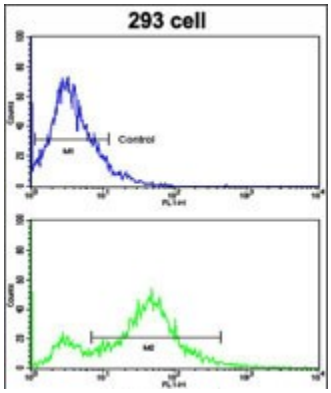
References

Bagley,R.G., et.al., Microvasc. Res. 76 (3), 180-188 (2008)

Images



Western blot analysis of CD248 Antibody (C-term) (Cat. #AP6756b) in 293 cell line lysates (35ug/lane). CD248 (arrow) was detected using the purified Pab.



Flow cytometric analysis of 293 cells using CD248 Antibody (C-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.