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CD248 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51768

Product Information

Application	WB
Primary Accession	Q9HCU0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80859

Additional Information

Gene ID	57124
Other Names	Endosialin, Tumor endothelial marker 1, CD248, CD248, CD164L1, TEM1
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

May play a role in tumor angiogenesis.

References

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Christian S.,et al.J. Biol. Chem. 276:7408-7414(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Rettig W.J.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:10832-10836(1992).
Dolznig H.,et al.Cancer Immun. 5:10-10(2005).