10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# 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 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD248. The exact sequence is proprietary. |
| **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

St Croix B.,et al.Science 289:1197-1202(2000).
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).