

## Product datasheet for **TA306484**

### TEM1 (CD248) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	TEM1 antibody was raised against a 14 amino acid peptide near the amino terminus of the human TEM1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	CD248 molecule
Database Link:	<a href="#">NP_065137</a> <a href="#">Entrez Gene 70445 Mouse</a> <a href="#">Entrez Gene 293669 Rat</a> <a href="#">Entrez Gene 57124 Human</a> <a href="#">Q9HCU0</a>



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**Background:**

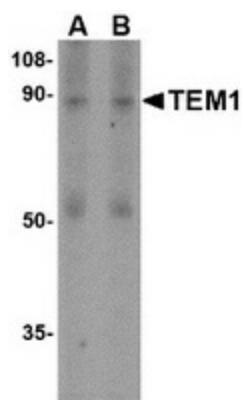
Tumor endothelial marker (TEM) 1 was originally identified as a human embryonic fibroblast-specific antigen and was later determined to be endosialin, a single-pass transmembrane glycoprotein that has multiple extracellular domains, including three EGF-like domains, a sushi-like domain, and a C lectin-like domain. TEM proteins are significantly up-regulated during angiogenesis and neoangiogenesis that are crucial for the growth of solid tumors. While TEM1 is not required for angiogenesis during fetal development, postnatal growth or wound healing, it plays a role in tumor growth, invasion, and metastasis. Fibronectin and collagen types I and IV act as specific ligands of TEM1, leading to suggestions that these molecules may cause changes in the extracellular matrix, cell adhesion and migration during tumor invasion. At least two isoforms of TEM1 are known to exist; this antibody recognizes only the larger isoform.

**Synonyms:**

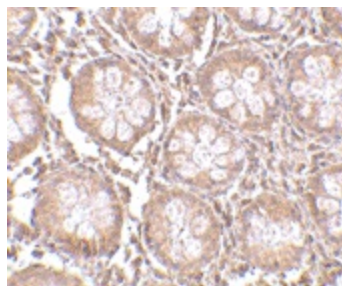
CD164L1; TEM1

**Protein Families:**

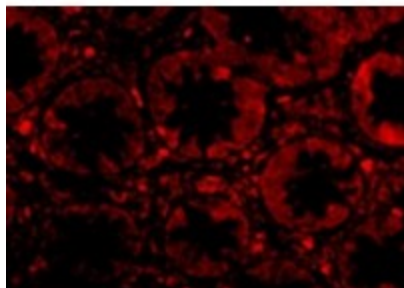
Druggable Genome, Transmembrane

**Product images:**

Western blot analysis of TEM1 in human colon tissue lysate with TEM1 antibody at (A) 0.5 and (B) 1 ug/ml.



Immunohistochemistry of TEM1 in human colon tissue with TEM1 antibody at 2.5 ug/ml.



Immunofluorescence of TEM1 in Human Colon cells with TEM1 antibody at 20 ug/mL.