For Research Use Only

TEM1 Monoclonal antibody

Catalog Number:60170-1-Ig 6 Publications

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Basic Information

Catalog Number:
60170-1-Ig

Size:
1600 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG13334

GenBank Accession Number:
BC051340

GeneID (NCBI):
57124

UNIPROT ID:
Q9HCU0

Full Name:
CD248 molecule, endosialin

Calculated MW:
757 aa, 81 kDa

Observed MW:
150-160 kDa

Purification Method:
Protein A purification

CloneNo.:
1F9B4

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:50-1:500

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
WB, IP, IF, IHC, CoIP

Species Specificity:
human, mouse

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HUVEC cells, COLO 320 cells, bEnd.3 cells, NIH/3T3 cells

IHC : human breast cancer tissue, human renal cell carcinoma tissue

Background Information

TEM1 (Tumor endothelial marker 1), also named as CD248, Endosialin and CD164L1, is a C-type lectin-like domain (CTLD) containing type I transmembrane glycoprotein. It is now considered to be a highly selective marker for activated perivascular and stromal cells, detected in most cancers and at least some inflammatory disorders. CD248 plays a role in tumor angiogenesis. It is a potential diagnostic tool and therapeutic target of inflammatory and malignant disease. Two isoforms of human TEM1 exist. The calculated molecular weights of the two isoforms are 81 kDa and 46 kDa, respectively. Native TEM1 can be glycosylated, and the glycosylated form has a larger apparent molecular weight than 81 kDa.

Notable Publications

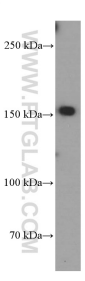
Author	Pubmed ID	Journal	Application
Shengya Cao	34531301	Proc Natl Acad Sci U S A	WB
Chia-Lun Hong	35950912	Cancer Res	WB,IF,IP
Po-Sheng Chen	35732643	Sci Rep	WB,IHC,IF,IP

Storage

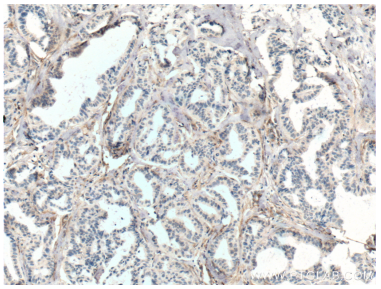
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

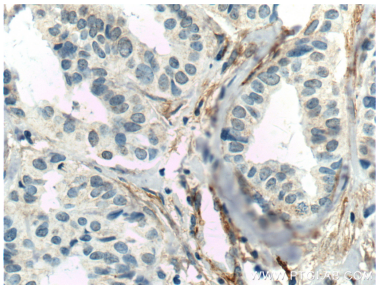
Selected Validation Data



HUVEC cells were subjected to SDS PAGE followed by western blot with 60170-1-Ig (TEM1 antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60170-1-Ig (TEM1 antibody at dilution of 1:250 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60170-1-Ig (TEM1 antibody at dilution of 1:250 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).