For Research Use Only

TEM1 Monoclonal antibody, PBS Only (Capture)

Catalog Number:60170-1-PBS

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Basic Information

Catalog Number:
60170-1-PBS

Size:
100ug , Concentration: 1mg/ml by Nanodrop;

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 G purification

CloneNo.:
1F9B4

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse

Product Information

60170-1-PBS targets TEM1 as part of a matched antibody pair:

MP51052-1: 60170-1-PBS capture and 60170-3-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

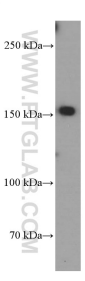
TEM1 (Tumor endothelial marker 1), also named as CD248, Endosialin and CD164L1, is a C-type lectin-like domain (CTLD) containing type I transmembrane glycoprotein. It is now considered to be a highly selective marker for activated perivascular and stromal cells, detected in most cancers and at least 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.

Storage

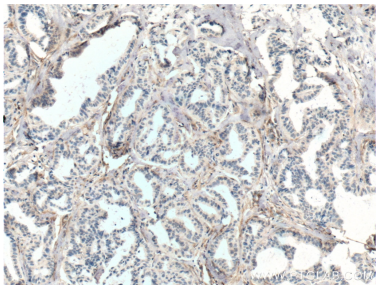
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

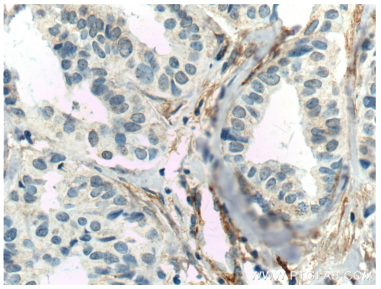
Selected Validation Data



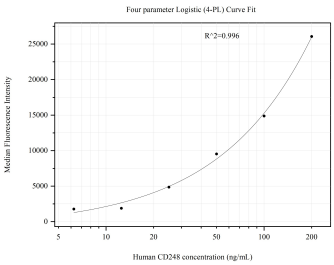
HUVEC cells were subjected to SDS PAGE followed by western blot with 60170-1-Ig (TEM1 antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60170-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 60170-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 60170-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP51052-1, CD248 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 60170-1-PBS. Detection antibody: 60170-3-PBS. Standard:Ag13334. Range: 6.25-200 ng/mL.