For Research Use Only

B7 H4 Polyclonal antibody

Catalog Number:12080-1-AP 11 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
12080-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2712

GenBank Accession Number:
BC065717

GeneID (NCBI):
79679

UNIPROT ID:
Q7Z7D3

Full Name:
V-set domain containing T cell activation inhibitor 1

Calculated MW:
282 aa, 31 kDa

Observed MW:
55-65 kDa

Purification Method:
Antigen affinity purification

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

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, 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 : mouse liver tissue, A549 cells, rat liver tissue

IHC : human ovary tumor tissue, human breast cancer tissue

Background Information

B7 H4 also named VTCN1, B7X, or B7S1 is a 282 amino acid protein, which contains 2 immunoglobulin-like domains and belongs to the immunoglobulin superfamily. B7 H4 negatively regulates T-cell mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. B7 H4 is a single-pass type I membrane protein, which is over-expressed in breast, ovarian, endometrial, renal cell and non-small-cell lung cancers. The predicted molecular weight of B7 H4 is 31 kDa. The glycosylated B7 H4 is 50 to 80 kDa, and the non-glycosylated form is 28 kDa.

Notable Publications

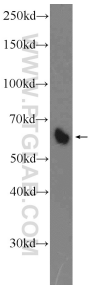
Author	Pubmed ID	Journal	Application
T Klymenko	29021401	J Virol	WB
Youwei Lu	34839353	Oncogene	IHC
Zhiming Zhao	32417396	Cancer Lett	WB,IHC

Storage

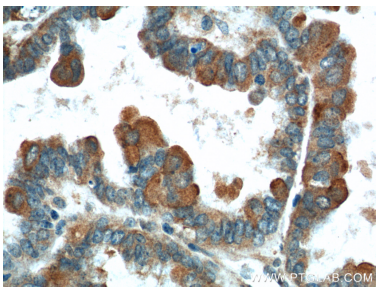
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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



mouse liver tissue were subjected to SDS PAGE followed by western blot with 12080-1-AP (B7 H4 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 12080-1-AP (B7 H4 Antibody) at dilution of 1:200 (under 40x lens).