

For Research Use Only

B7-H4 Polyclonal antibody

Catalog Number: 12080-1-AP **8 Publications**



Basic Information

Catalog Number: 12080-1-AP	GenBank Accession Number: BC065717	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 µg/ml by Nanodrop;	GeneID (NCBI): 79679	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q7Z7D3	
Isotype: IgG	Full Name: V-set domain containing T cell activation inhibitor 1	
Immunogen Catalog Number: AG2712	Calculated MW: 282 aa, 31 kDa	
	Observed MW: 55-65 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB: mouse liver tissue, A549 cells, HeLa cells, rat liver tissue
Species Specificity: human, mouse, rat	IHC: human ovary tumor tissue, human breast cancer tissue
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

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

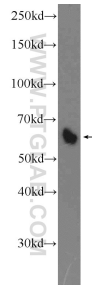
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

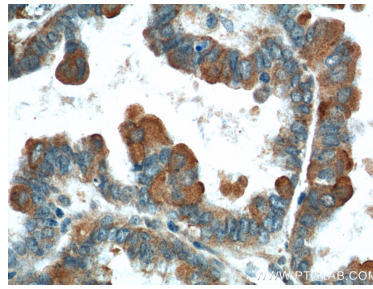
For technical support and original validation data for this product please contact:
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Selected Validation Data



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).