

For Research Use Only

# B7 H4 Polyclonal antibody

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



## Basic Information

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

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC	<b>WB:</b> mouse liver tissue, A549 cells, HeLa cells, rat liver tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IHC:</b> human ovary tumor tissue, human breast cancer tissue
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

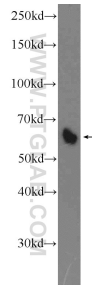
## Storage

**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

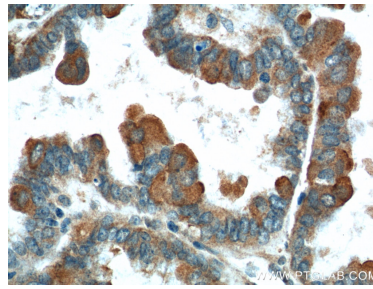
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## Selected Validation Data



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).