

For Research Use Only

# B7 H4 Monoclonal antibody

Catalog Number: 66817-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66817-1-Ig	<b>GenBank Accession Number:</b> BC065717	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1500 ug/ml	<b>GeneID (NCBI):</b> 79679	<b>CloneNo.:</b> 2E5B1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q7Z7D3	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:500-1:2000
<b>Isotype:</b> IgG1	<b>Full Name:</b> V-set domain containing T cell activation inhibitor 1	
<b>Immunogen Catalog Number:</b> AG27751	<b>Calculated MW:</b> 282 aa, 31 kDa	
	<b>Observed MW:</b> 31-35 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : SKOV-3 cells, T-47D cells, HeLa cells, A549 cells IHC : rat kidney tissue, human cervical cancer tissue, mouse colon tissue
<b>Cited Applications:</b> IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> 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
Youwei Lu	38849009	Cancer Lett	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**

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

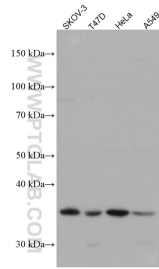
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

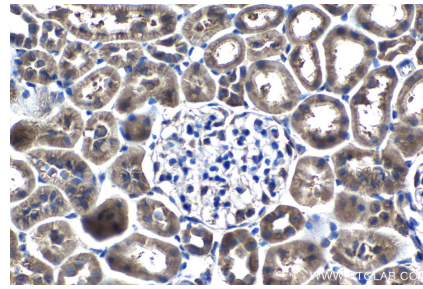
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66817-1-Ig (B7 H4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 66817-1-Ig (B7 H4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).