

B7 H4 Monoclonal antibody

Catalog Number: 66817-1-Ig

Basic Information

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

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human, rat, 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 : SKOV-3 cells, T-47D cells, HeLa cells, A549 cells

IHC : rat kidney tissue, human cervical cancer tissue, mouse colon 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.

Storage

Storage:

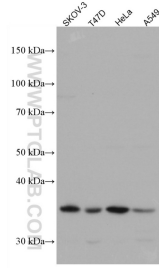
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

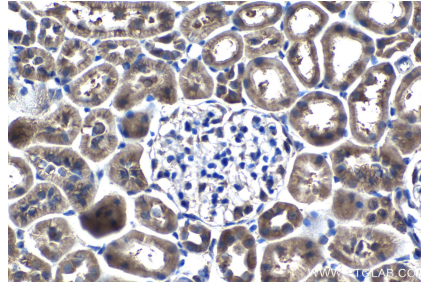
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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).