For Research Use Only

B7-H4 Monoclonal antibody

Catalog Number:66817-1-Ig

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Basic Information

Catalog Number:
66817-1-Ig

Size:
150ul , Concentration: 1500 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG27751

GenBank Accession Number:
BC065717

GeneID (NCBI):
79679

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

Calculated MW:
282 aa, 31 kDa

Observed MW:
31-35 kDa

Purification Method:
Protein G purification

CloneNo.:
2E5B1

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:500-1:2000

Applications

Tested Applications:
IHC, WB, ELISA

Species Specificity:
Human, rat

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

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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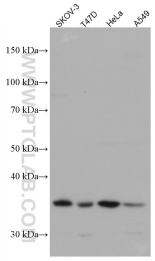
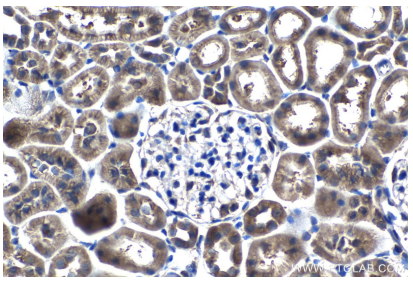
Selected Validation Data



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).