

For Research Use Only

B7-H3 Monoclonal antibody

Catalog Number: 66481-1-Ig

Featured Product

8 Publications



Basic Information

Catalog Number: 66481-1-Ig	GenBank Accession Number: BC062581	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 80381	CloneNo.: 1E7D1
Source: Mouse	Full Name: CD276 molecule	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:2500-1:10000 IF 1:50-1:500
Isotype: IgG2a	Calculated MW: 57 kDa	
Immunogen Catalog Number: AG6006	Observed MW: 100 kDa	

Applications

Tested Applications: FC, IF, IHC, WB, ELISA	Positive Controls: WB : HEK-293 cells, A431 cells, PC-3 cells IHC : human tonsillitis tissue, human placenta tissue, human prostate cancer tissue, human lung cancer tissue IF : human tonsillitis tissue,
Cited Applications: CoIP, FC, IHC, IP, WB	
Species Specificity: Human, Pig	
Cited Species: human	
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-H3 (CD276) is a type I transmembrane protein expressed on many tissues and cell types. B7-H3 is a 100-kDa glycoprotein that belongs to the B7 immunoregulatory family and participates in the regulation of T-cell-mediated immune response probably by functioning as both a T cell costimulator and coinhibitor (PMID: 25567370; 20696859). Overexpressed on a wide range of human solid cancers, B7-H3 has been implicated in cancer progression and metastasis and becomes an attractive target for cancer immunotherapy (PMID: 27208063).

Notable Publications

Author	Pubmed ID	Journal	Application
Meiyun Sun	35003371	J Cancer	WB, CoIP
Shasha Zhao	35768165	J Immunother Cancer	WB, FC
Yingzhen Gao	35752862	J Transl Med	IP

Storage

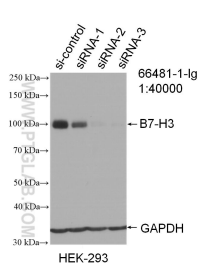
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

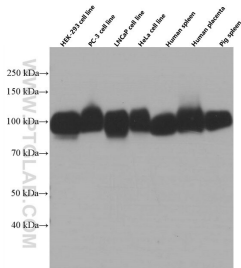
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

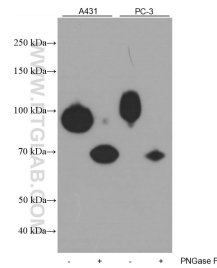
Selected Validation Data



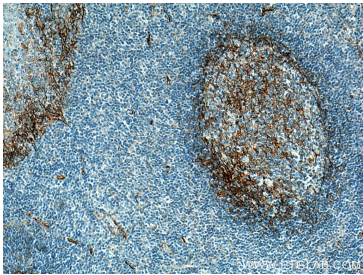
WB result of B7-H3 antibody (66481-1-Ig; 1:40000; incubated at room temperature for 1.5 hours) with normal HEK-293 (sh-control) and three independent sh-B7-H3 transfected HEK-293 cells.



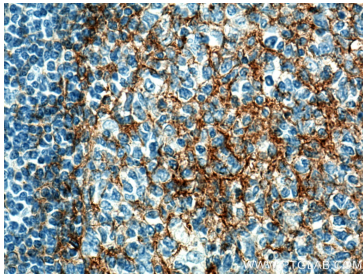
HEK-293, PC-3, LNCaP, HeLa cells, and human spleen, human placenta, pig spleen tissues were subjected to SDS PAGE followed by western blot with 66481-1-Ig (B7-H3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



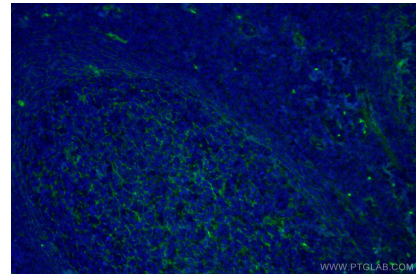
Untreated and PNGase F-treated lysates of A431 cells and PC-3 cells were subjected to SDS PAGE followed by western blot with 66481-1-Ig (B7-H3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



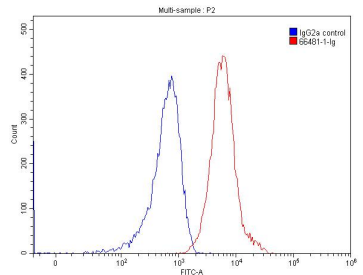
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66481-1-Ig (B7-H3 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66481-1-Ig (B7-H3 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66481-1-Ig (B7-H3 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10⁶ HEK-293 cells were stained with 0.20ug B7-H3 antibody (66481-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH.