

For Research Use Only

B7-H3/CD276 Monoclonal antibody

Catalog Number: 66481-1-Ig

Featured Product

12 Publications



Basic Information

Catalog Number:

66481-1-Ig

Size:

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

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG6006

GenBank Accession Number:

BC062581

GeneID (NCBI):

80381

UNIPROT ID:

Q5ZPR3

Full Name:

CD276 molecule

Calculated MW:

57 kDa

Observed MW:

100 kDa

Purification Method:

Protein A purification

CloneNo.:

1E7D1

Recommended Dilutions:

WB: 1:1000-1:6000

IHC: 1:2500-1:10000

IF-P: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

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**

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-P: human placenta tissue,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

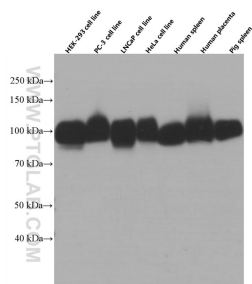
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

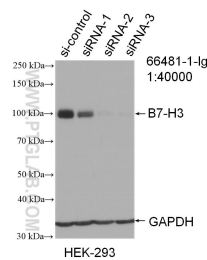
E: proteintech@ptglab.com
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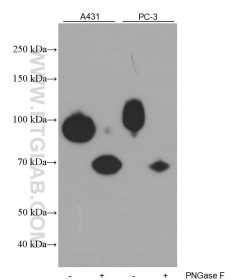
Selected Validation Data



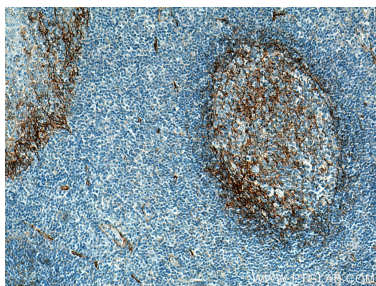
HEK-293, PC-3, LNCaP, HeLa cells, and human spleen, human placenta, pig spleen tissues were subjected to SDS PAGE followed by western blot with 66481-1-Ig (B7-H3/CD276 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



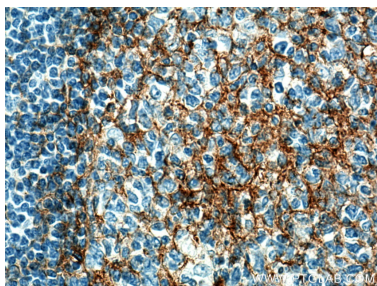
WB result of B7-H3/CD276 antibody (66481-1-Ig; 1:40000; incubated at room temperature for 1.5 hours) with normal HEK-293 (sh-control) and three independent sh-B7-H3 transfected HEK-293 cells.



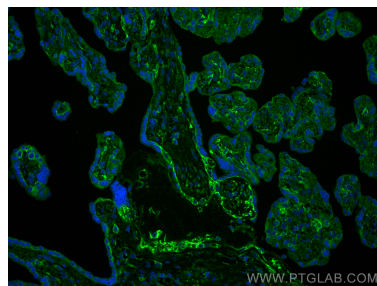
Untreated and PNGase F-treated lysates of A431 cells and PC-3 cells were subjected to SDS PAGE followed by western blot with 66481-1-Ig (B7-H3/CD276 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66481-1-Ig (B7-H3/CD276 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/CD276 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 paraffin-embedded human placenta tissue using B7-H3/CD276 antibody (66481-1-Ig, Clone: 1E7D1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).