

For Research Use Only

B7-H3/CD276 Polyclonal antibody

Catalog Number: 14453-1-AP

Featured Product

16 Publications



Basic Information

Catalog Number:

14453-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:200-1:800

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

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, LNCaP cells, U2OS cells

IHC : human prostate cancer tissue, human medulloblastoma tissue, human testis tissue, human tonsillitis 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
Lipeng Tang	30607907	J Cell Physiol	WB
Zhangao Li	31737114	J Cancer	IHC
Qi Zhang	36435292	J Nutr Biochem	WB

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

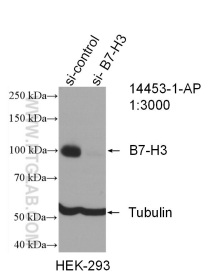
For technical support and original validation data for this product please contact:

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

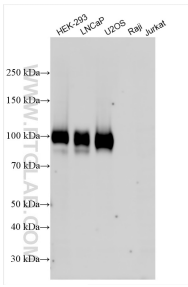
E: proteintech@ptglab.com
W: ptglab.com

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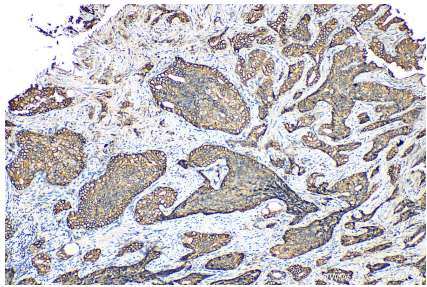
Selected Validation Data



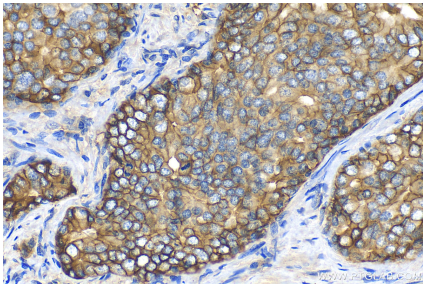
WB result of B7-H3/CD276 antibody (14453-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-B7-H3/CD276 transfected HEK-293 cells.



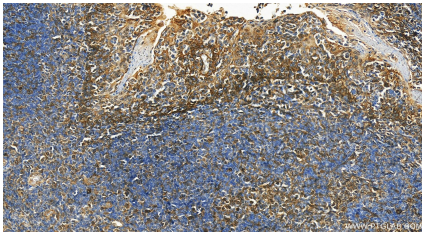
Various lysates were subjected to SDS PAGE followed by western blot with 14453-1-AP (B7-H3/CD276 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 14453-1-AP (B7-H3/CD276 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 14453-1-AP (B7-H3/CD276 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 14453-1-AP (B7-H3/CD276 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).