For Research Use Only

B7-H3/CD276 Polyclonal antibody

Catalog Number:14453-1-AP Featured Product 24 Publications

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Basic Information

Catalog Number:
14453-1-AP

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, CoIP

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

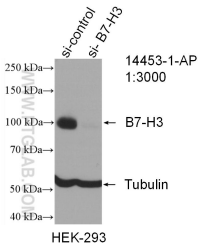
Storage

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

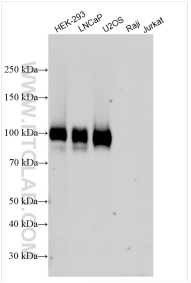
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

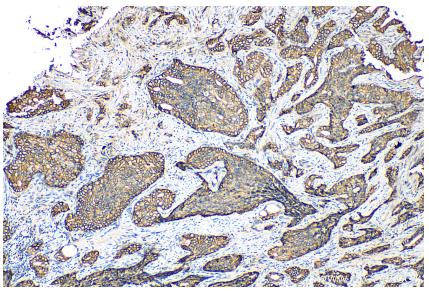
Selected Validation Data



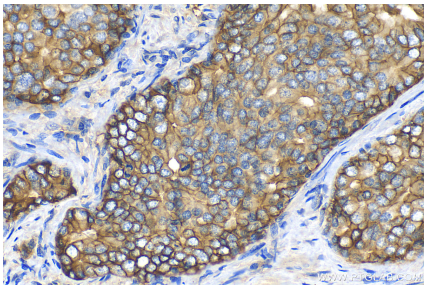
WB result of B7-H3/CD276 antibody (14453-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-B7-H3/CD276 transfected HEK-293 cells.



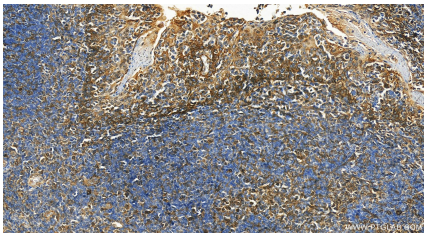
Various lysates were subjected to SDS PAGE followed by western blot with 14453-1-AP (B7-H3/CD276 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).