

For Research Use Only

# B7-H3/CD276 Polyclonal antibody

Catalog Number: 30052-1-AP



## Basic Information

### Catalog Number:

30052-1-AP

### Size:

150ul , Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_001024736

### GeneID (NCBI):

80381

### UNIPROT ID:

Q5ZPR3

### Full Name:

CD276 molecule

### Calculated MW:

57 kDa

### Observed MW:

95-100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Species Specificity:

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, HeLa cells, LNCaP cells, U2OS cells

IP : HuH-7 cells,

IHC : human lung cancer tissue,

IF/ICC : HEK-293 cells,

## 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).

## 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

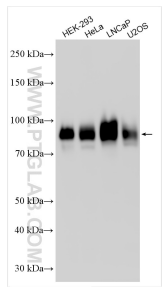
For technical support and original validation data for this product please contact:

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

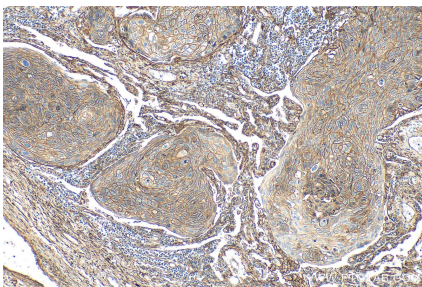
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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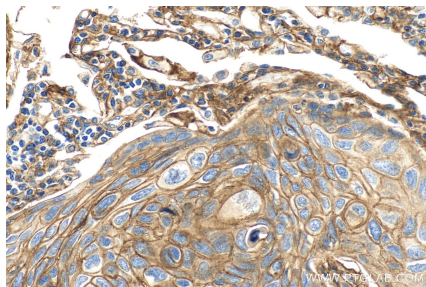
Selected Validation Data



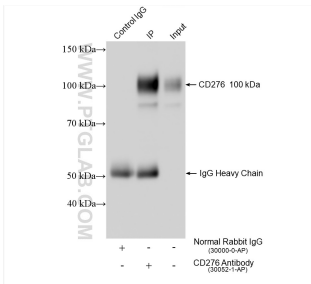
Various lysates were subjected to SDS PAGE followed by western blot with 30052-1-AP (B7-H3/CD276 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



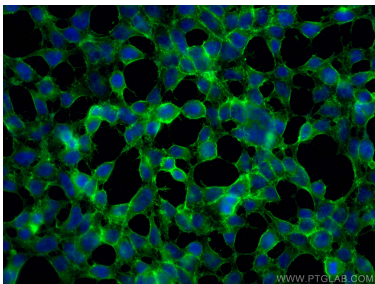
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 30052-1-AP (B7-H3/CD276 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 30052-1-AP (B7-H3/CD276 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-B7-H3/CD276 (IP:30052-1-AP, 4ug; Detection:30052-1-AP 1:15000) with HuH-7 cells lysate 840 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using B7-H3/CD276 antibody (30052-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).