

For Research Use Only

# CD71 Polyclonal antibody

Catalog Number: 10084-2-AP

Featured Product

131 Publications



## Basic Information

### Catalog Number:

10084-2-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0123

### GenBank Accession Number:

BC001188

### GeneID (NCBI):

7037

### ENSEMBL Gene ID:

ENSG00000072274

### UNIPROT ID:

P02786

### Full Name:

transferrin receptor (p90, CD71)

### Calculated MW:

85 kDa

### Observed MW:

90 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:5000-1:50000

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

IHC: 1:500-1:2000

IF/ICC: 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, Cell treatment

### Species Specificity:

human

### Cited Species:

human, pig, monkey, chicken, duck

**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: HT-1080 cells, LoVo cells, HeLa cells, Jurkat cells, K-562 cells, human placenta tissue

IP: HeLa cells,

IHC: human placenta tissue,

IF/ICC: K-562 cells, MCF-7 cells

## Background Information

CD71, also known as transferrin receptor protein 1 (TfR1), is a transmembrane glycoprotein composed of two disulfide-linked monomers, each of 90 kDa molecular weight. Each monomer binds one holo-transferrin molecule creating an iron-Tf-TfR complex that enters the cell by endocytosis. CD71 is present on actively proliferating cells and is essential for iron transport into proliferating cells.

## Notable Publications

Author	Pubmed ID	Journal	Application
Diego Sbardella	28951555	Sci Rep	IF
Qiong Ma	34571345	Transl Oncol	WB
Zixuan Liu	33017703	Chemosphere	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

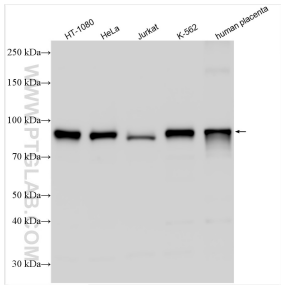
For technical support and original validation data for this product please contact:

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

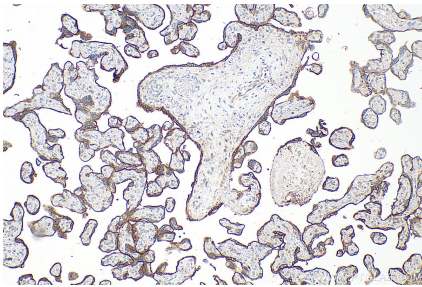
E: proteintech@ptglab.com  
W: ptglab.com

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

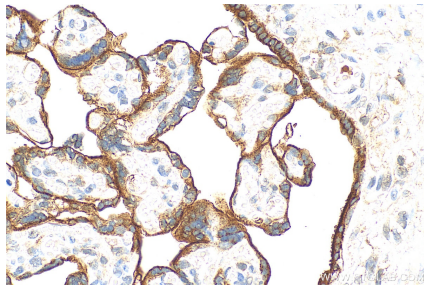
Selected Validation Data



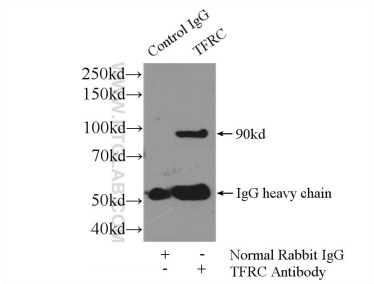
Various lysates were subjected to SDS PAGE followed by western blot with 10084-2-AP (CD71 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



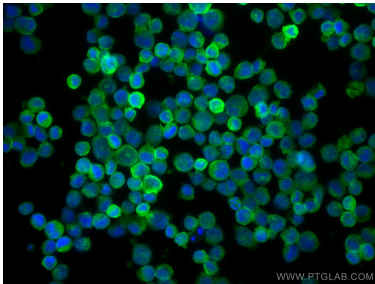
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10084-2-AP (CD71 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



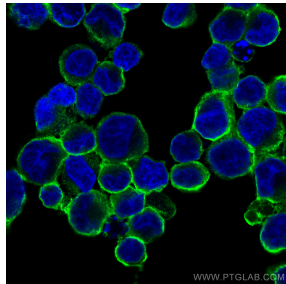
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10084-2-AP (CD71 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



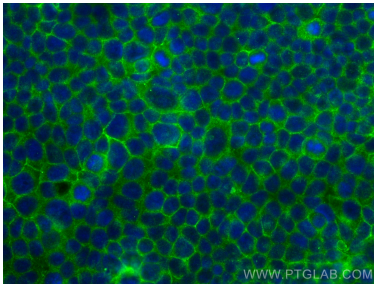
IP result of anti-CD71 (IP:10084-2-AP, 4ug; Detection:10084-2-AP 1:500) with HeLa cells lysate 2400ug.



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using CD71 antibody (10084-2-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using CD71 antibody (10084-2-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using CD71 antibody (10084-2-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).