

For Research Use Only

# CD71 Polyclonal antibody

Catalog Number: 10084-2-AP

Featured Product

141 Publications



## Basic Information

### Catalog Number:

10084-2-AP

### 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, bovine, 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

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

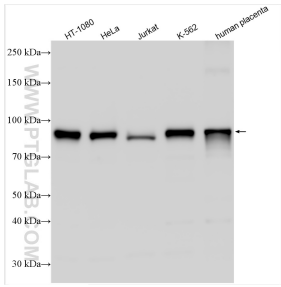
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

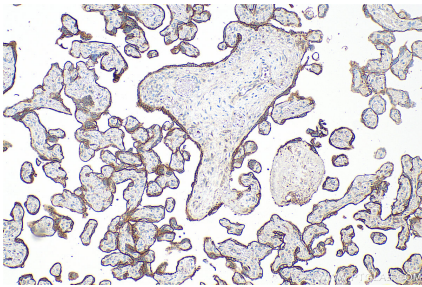
W: [ptgcn.com](http://ptgcn.com)

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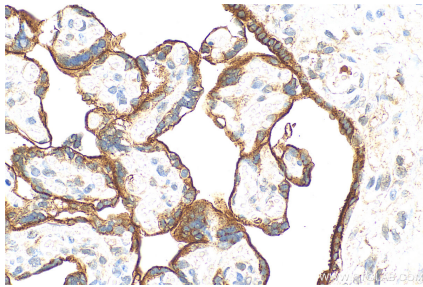
Selected Validation Data



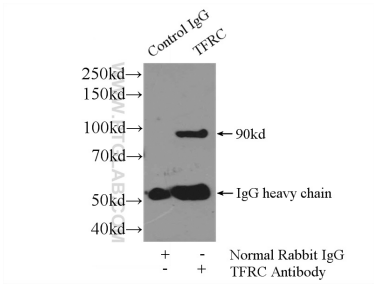
Various lysates were subjected to SDS PAGE followed by western blot with 10084-2-AP (CD71 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



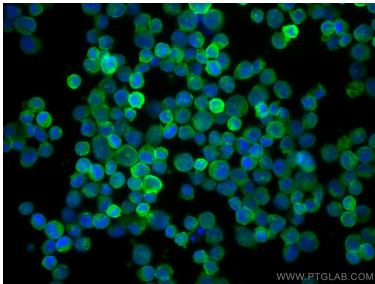
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10084-2-AP (CD71 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



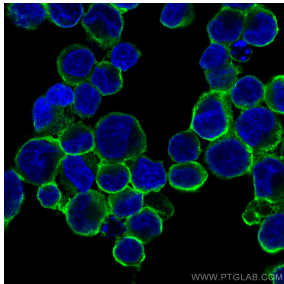
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10084-2-AP (CD71 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



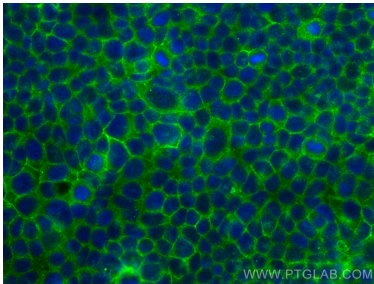
IP result of anti-CD71 (IP:10084-2-AP, 4ug; Detection:10084-2-AP 1:500) with HeLa cells lysate 2400ug.



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).