

For Research Use Only

# CD71 Monoclonal antibody

Catalog Number: 66180-1-Ig

Featured Product

29 Publications



## Basic Information

### Catalog Number:

66180-1-Ig

### Size:

150ul, Concentration: 1500 ug/ml by Nanodrop;

### Source:

Mouse

### Isotype:

IgG2a

### Immunogen Catalog Number:

AG21612

### 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:

Protein A purification

### CloneNo.:

3C11F11

### Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:2000-1:8000

IF-P 1:200-1:800

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

### Cited Applications:

WB, IHC, IF, Blocking assay

### 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 : U-251 cells, A549 cells, HeLa cells, Raji cells, TF-1 cells, U2OS cells, A431 cells, HepG2 cells, K-562 cells

IP : HeLa cells,

IHC : human placenta tissue, human breast cancer tissue

IF-P : human breast cancer tissue, MCF-7 cells

IF/ICC : MCF-7 cells, K-562 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 which 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
Ping Han	36309297	Free Radic Biol Med	WB
Lingjuan Wang	34732689	Cell Death Discov	WB
Yangli Tian	34081703	PLoS Genet	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

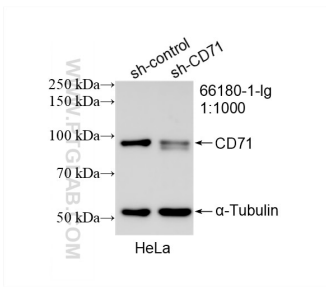
For technical support and original validation data for this product please contact:

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

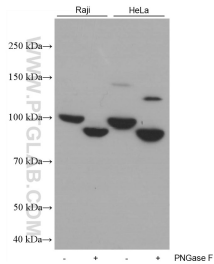
E: proteintech@ptglab.com  
W: ptglab.com

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

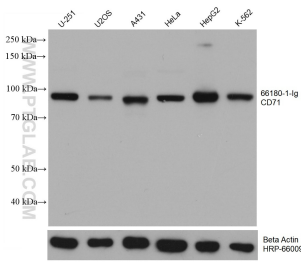
Selected Validation Data



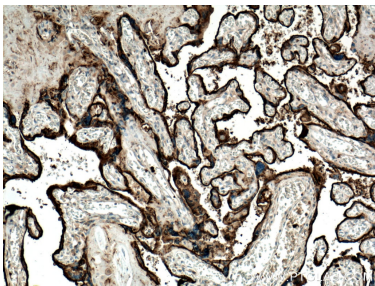
WB result of CD71 antibody (66180-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CD71 transfected HeLa cells.



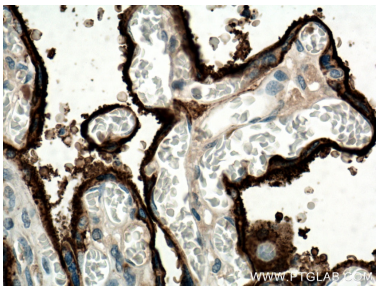
Untreated and PNGase F-treated lysates of Raji cells and HeLa cells were subjected to SDS PAGE followed by western blot with 66180-1-Ig (CD71 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



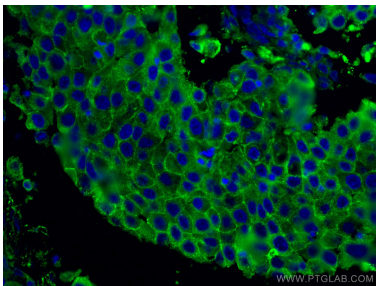
Various lysates were subjected to SDS PAGE followed by western blot with 66180-1-Ig (CD71 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



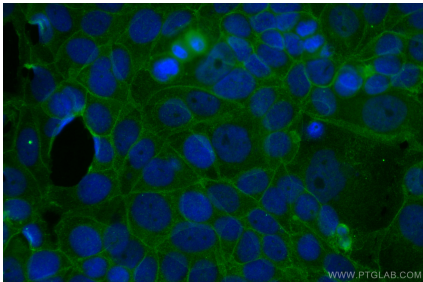
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66180-1-Ig (CD71 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



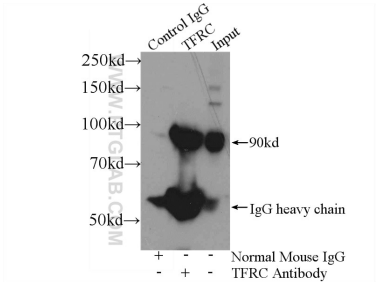
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66180-1-Ig (CD71 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



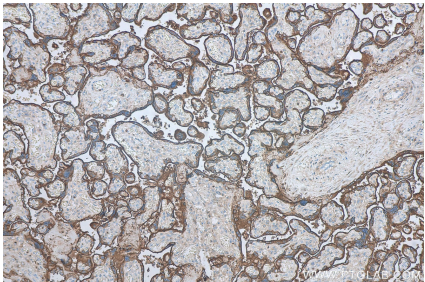
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CD71 antibody (66180-1-Ig, Clone: 3C11F11) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



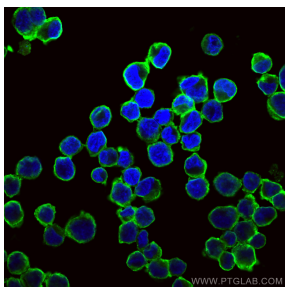
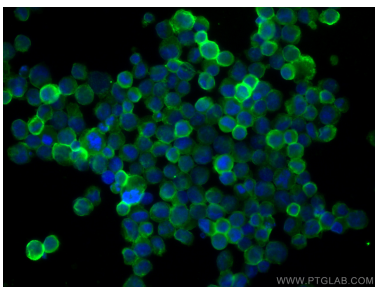
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using CD71 antibody (66180-1-Ig, Clone: 3C11F11) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



IP result of anti-CD71 (IP:66180-1-Ig, 5ug; Detection:66180-1-Ig 1:1000) with HeLa cells lysate 2400ug.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66180-1-Ig (CD71 antibody) at dilution of 1:40000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using CD71 antibody (66180-1-Ig, Clone: 3C11F11 ) at dilution of 1:800 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).

Immunofluorescent analysis of (4% PFA) fixed K-562 cells using CD71 antibody (66180-1-Ig, Clone: 3C11F11 ) at dilution of 1:800 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).