

For Research Use Only

# CD320 Polyclonal antibody

Catalog Number: 10343-1-AP

Featured Product

10 Publications



## Basic Information

### Catalog Number:

10343-1-AP

### Size:

600 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0344

### GenBank Accession Number:

BC000668

### GeneID (NCBI):

51293

### UNIPROT ID:

Q9NPF0

### Full Name:

CD320 molecule

### Calculated MW:

29 kDa

### Observed MW:

60-70 kDa, 35-40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IHC 1:500-1:2000

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, canine, cat

### Positive Controls:

WB : HL-60 cells, K-562 cells, Raji cells, human placenta tissue

IHC : mouse kidney tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

CD320, also known as 8D6, 8D6A or TCbLR, is a single-pass type I membrane protein containing 2 LDL-receptor class A domains. Expressed abundantly on follicular dendritic cells (FDCs), CD320 has been shown to enhance proliferation of germinal center (GC) B cells. It is the receptor for cellular uptake of transcobalamin-bound cobalamin. Defects in CD320 are the cause of methylmalonic aciduria type TCbLR (MMATC). CD320 has a calculated molecular mass of 29 kDa. This antibody raised against 84-280aa of human CD320 protein detects bands at 35-40 kDa and 60-70 kDa. The aberrant mobility of the protein by SDS-PAGE is probably caused by extensive complex glycosylation (PMID: 18779389; 23415653).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuri Kinoshita	29966424	Mol Pharm	
Yue Chen	34998874	Int J Biol Macromol	IF
David J Elzi	33629776	FASEB J	WB,IF

## 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

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

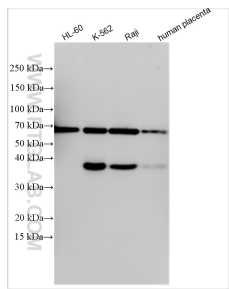
T: 4006900926

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

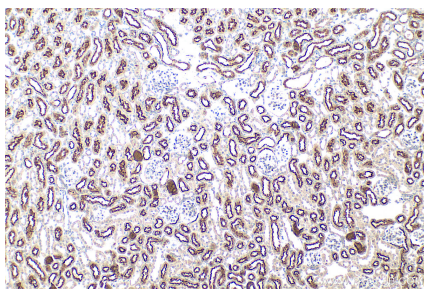
W: [ptgcn.com](http://ptgcn.com)

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

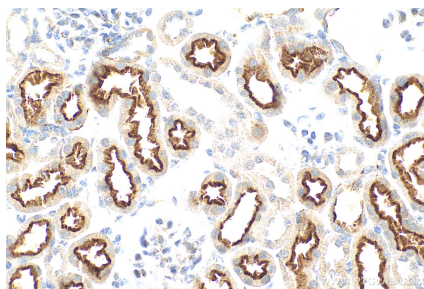
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10343-1-AP (CD320 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10343-1-AP (CD320 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 mouse kidney tissue slide using 10343-1-AP (CD320 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).