

For Research Use Only

CD320 Polyclonal antibody

Catalog Number: 10343-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number: 10343-1-AP	GenBank Accession Number: BC000668	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 210 µg/ml by Nanodrop;	GeneID (NCBI): 51293	Recommended Dilutions: WB 1:500-1:3000 IHC 1:500-1:2000
Source: Rabbit	Full Name: CD320 molecule	
Isotype: IgG	Calculated MW: 29 kDa	
Immunogen Catalog Number: AG0344	Observed MW: 60-70 kDa, 58 kDa	

Applications

Tested Applications: FC, IHC, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, WB	WB : HL-60 cells, human liver tissue, HEK-293 cells, mouse heart tissue, HeLa cells, Raji cells, human placenta tissue
Species Specificity: human, mouse	IHC : mouse kidney tissue, human tonsillitis tissue
Cited Species: cat, human, rat, mouse, canine	
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 58 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

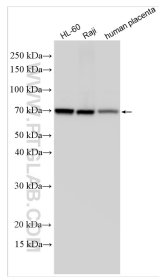
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

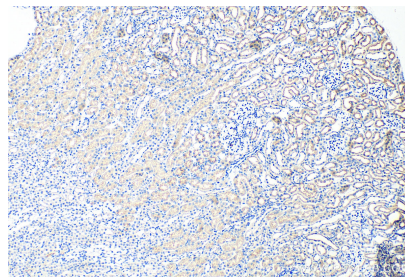
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

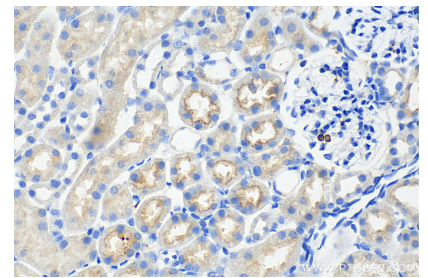
Selected Validation Data



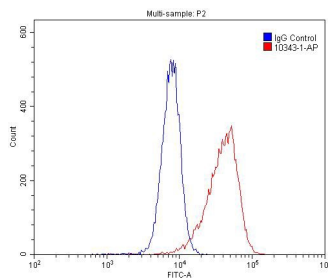
Various lysates were subjected to SDS PAGE followed by western blot with 10343-1-AP (CD320 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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).



1X10⁶ HL-60 cells were stained with 0.2ug CD320 antibody (10343-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.