

CD320 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13137b**Specification**

CD320 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q9NPF0
Other Accession	NP_001159367.1 , NP_057663.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	28991
Antigen Region	153-182

CD320 Antibody (C-term) - Additional Information**Gene ID** 51293**Other Names**

CD320 antigen, 8D6 antigen, FDC-signaling molecule 8D6, FDC-SM-8D6, Transcobalamin receptor, TCbIR, CD320, CD320, 8D6A

Target/Specificity

This CD320 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 153-182 amino acids from the C-terminal region of human CD320.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CD320 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CD320 Antibody (C-term) - Protein Information**Name** CD320

Synonyms 8D6A

Function Receptor for transcobalamin saturated with cobalamin (TCbl) (PubMed:[18779389](#)). Plays an important role in cobalamin uptake (PubMed:[18779389](#), PubMed:[20524213](#)). Plasma membrane protein that is expressed on follicular dendritic cells (FDC) and mediates interaction with germinal center B cells (PubMed:[10727470](#)). Functions as costimulator to promote B cell responses to antigenic stimuli; promotes B cell differentiation and proliferation (PubMed:[10727470](#), PubMed:[11418631](#)). Germinal center-B (GC-B) cells differentiate into memory B-cells and plasma cells (PC) through interaction with T-cells and follicular dendritic cells (FDC) (PubMed:[11418631](#)). CD320 augments the proliferation of PC precursors generated by IL-10 (PubMed:[11418631](#)).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

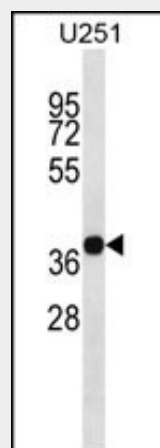
Detected in the germinal center (GC) of lymphoid follicles (at protein level) (PubMed:[11418631](#)). Expressed abundantly on follicular dendritic cells (FDCs) (PubMed:[10727470](#))

CD320 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD320 Antibody (C-term) - Images



CD320 Antibody (C-term) (Cat. #AP13137b) western blot analysis in U251 cell line lysates (35ug/lane). This demonstrates the CD320 antibody detected the CD320 protein (arrow).

CD320 Antibody (C-term) - Background

The CD320 antigen gene encodes the transcobalamin receptor (TCBLR). Cellular uptake of cobalamin (vitamin B12) is mediated by

receptors expressed on the cell surface. Transcobalamin II (TCN2; MIM 613441), a plasma protein secreted by endothelial cells, binds the cobalamin absorbed in the distal ileum and carries 10 to 30% of total circulating cobalamin. CD320 encodes a transcobalamin receptor that binds TCN2-cobalamin at the plasma membrane and internalizes the complex by endocytosis (Quadros et al., 2009 [PubMed 18779389]).

CD320 Antibody (C-term) - References

Jiang, W., et al. Gene 466 (1-2), 49-55 (2010) :
Pangilinan, F., et al. J. Med. Genet. 47(10):677-685(2010)
Quadros, E.V., et al. Hum. Mutat. 31(8):924-929(2010)
Quadros, E.V., et al. Blood 113(1):186-192(2009)
Cho, W., et al. BMB Rep 41(12):863-867(2008)