

CD320 Antibody (C-term) Blocking Peptide

Synthetic peptide

Catalog # BP13137b

Specification

CD320 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession

[O9NPF0](#)**CD320 Antibody (C-term) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody AP13137b was selected from the C-term region of CD320. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CD320 Antibody (C-term) Blocking Peptide - Protein Information

Name CD320

Synonyms 8D6A

Function

Receptor for transcobalamin saturated with cobalamin (TCbl) (PubMed: [18779389](http://www.uniprot.org/citations/18779389)). Plays an important role in cobalamin uptake (PubMed: [18779389](http://www.uniprot.org/citations/18779389), PubMed: [20524213](http://www.uniprot.org/citations/20524213)). Plasma membrane protein that is expressed on follicular dendritic cells (FDC) and mediates interaction with germinal center B cells (PubMed: [10727470](http://www.uniprot.org/citations/10727470)). Functions as costimulator to promote B cell responses to antigenic stimuli; promotes B cell differentiation and proliferation (PubMed: [10727470](http://www.uniprot.org/citations/10727470), PubMed: [11418631](http://www.uniprot.org/citations/11418631)

target="_blank">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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CD320 Antibody (C-term) Blocking Peptide - Images

CD320 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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)