

Rabbit anti-Human CD320 Polyclonal Antibody | anti-CD320 antibody

CD320 Antibody (C-term)

CATALOG # AAA289592	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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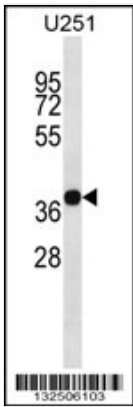
PRODUCT SYNONYMS

CD320; Polyclonal Antibody; CD320 Antibody (C-term); CD320 antigen; 8D6 antigen; FDC-signaling molecule 8D6; FDC-SM-8D6; Transcobalamin receptor; TCbLR; 8D6A; anti-CD320 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	153-182
Sequence Length	240
Applicable Applications for anti-CD320 antibody	ELISA, WB (Western Blot)
Function	Receptor for transcobalamin saturated with cobalamin (TCbL) (PubMed:). Plays an important role in cobalamin uptake (PubMed: , PubMed:20524213). Plasma membrane protein that is expressed on follicular dendritic cells (FDC) and mediates interaction with germinal center B cells (PubMed:). Functions as costimulator to promote B cell responses to antigenic stimuli; promotes B cell differentiation and proliferation (PubMed: , PubMed:). 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:). CD320 augments the proliferation of PC precursors generated by IL-10 (PubMed:).
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)
Preparation and 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.

IMAGES



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

ADDITIONAL INFORMATION

Related Product Information for anti-CD320 antibody	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]).
Product Categories/Family for anti-CD320 antibody	Cell Biology ; Developmental Biology ; Immunology ; Signal Transduction
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	259906403
NCBI GeneID	51293
NCBI Accession #	NP_001159367.1 ; NP_057663.1
NCBI GenBank Nucleotide #	NM_001165895.1
UniProt Accession #	Q9NPF0 ; Q53HF7 ; B2RDS5 ; D6W668 ; F5H6D3
Molecular Weight	28991
NCBI Official Full Name	CD320 antigen isoform 2
NCBI Official Synonym Full Names	CD320 molecule
NCBI Official Symbol	CD320
NCBI Official Synonym Symbols	8D6; 8D6A; TCBLR
NCBI Protein Information	CD320 antigen
UniProt Protein Name	CD320 antigen
UniProt Gene Name	CD320
UniProt Synonym Gene Names	8D6A; FDC-SM-8D6; TCbIR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd320-antibody-western-blot-elisa/289592>