

TCbLR/CD320 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76798
Synonyms:	CD320 antigen; 8D6 antigen; FDC-signaling molecule 8D6; FDC-SM-8D6; Transcobalamin receptor; TCbLR; CD320
Species:	Mouse
Source:	HEK293
Accession:	Q9Z1P5-1 (M1-G208)
Gene ID:	54219
Molecular Weight:	Approximately 47.7 kDa

PROPERTIES

AA Sequence	<p>M A R G G A G R A V A L G L V L R L L F G L R T G L E A A P A P A H T R V Q V S</p> <p>G S R A D S C P T D T F Q C L T S G Y C V P L S W R C D G D Q D C S D G S D E E</p> <p>D C R I E S C A Q N G Q C Q P Q S A L P C S C D N I S G C S D V S D K N L N C S</p> <p>R P P C Q E S E L H C I L D D V C I P H T W R C D G H P D C L D S S D E L S C D</p> <p>T D T E I D K I F Q E E N A T T T R I S T T M E N E T S F R N V T F T S A G D S</p> <p>S R N P S A Y G</p>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized mouse CD320-His at 10 µg/mL (100 µl/well) can bind biotinylated mouse TCN2-His, The EC ₅₀ of biotinylated mouse TCN2-His is 0.10-0.24 µg/mL.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	TCbLR/CD320 Protein, serving as the receptor for transcobalamin saturated with cobalamin (TCbl), assumes a pivotal role in cobalamin uptake. Positioned on the plasma membrane, it is notably expressed on follicular dendritic cells (FDC), facilitating interactions with germinal center B cells. Functioning as a costimulator, TCbLR promotes B cell responses to
-------------------	--

antigenic stimuli, thereby fostering B cell differentiation and proliferation. Particularly influential in the differentiation of germinal center-B (GC-B) cells into memory B-cells and plasma cells (PC), TCbLR engages in collaborative interactions with T-cells and follicular dendritic cells (FDC). Its involvement extends to augmenting the proliferation of PC precursors generated by IL-10. The interaction of CD320 with TCN2, mediated through its LDL-receptor class A domains, underscores its significance in cobalamin homeostasis and cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA