

TCbIR/CD320 Protein, Human (HEK293, His)

Cat. No.:	HY-P72456
Synonyms:	CD320 antigen; 8D6 antigen; FDC-signaling molecule 8D6; FDC-SM-8D6; Transcobalamin receptor; TCbIR; CD320
Species:	Human
Source:	HEK293
Accession:	Q9NPF0 (S36-V231)
Gene ID:	51293
Molecular Weight:	37-53 kDa

PROPERTIES

AA Sequence	<pre> S P L S T P T S A Q A A G P S S G S C P P T K F Q C R T S G L C V P L T W R C D R D L D C S D G S D E E E C R I E P C T Q K G Q C P P P P G L P C P C T G V S D C S G G T D K K L R N C S R L A C L A G E L R C T L S D D C I P L T W R C D G H P D C P D S S D E L G C G T N E I L P E G D A T T M G P P V T L E S V T S L R N A T T M G P P V T L E S V P S V G N A T S S S A G D Q S G S P T A Y G V </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 10 mM Tris-Citrate, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>TCbIR/CD320, a receptor for transcobalamin saturated with cobalamin (TCbl), is a crucial player in cobalamin uptake, emphasizing its significance in cellular cobalamin homeostasis. This plasma membrane protein is prominently expressed on follicular dendritic cells (FDC), where it facilitates interaction with germinal center B cells, contributing to the orchestration of immune responses. Beyond its role in cobalamin transport, TCbIR/CD320 functions as a costimulator, promoting B cell responses to antigenic stimuli. This involvement includes the enhancement of B cell differentiation and proliferation, particularly within germinal center-B cells. The intricate interplay of TCbIR/CD320 with germinal center B cells, T cells, and follicular dendritic cells is crucial for the differentiation of memory B cells and plasma cells, underscoring its multifaceted</p>
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role in immune regulation. Moreover, TCbR/CD320's interaction with TCN2 further elucidates its involvement in cobalamin-related processes, contributing to our understanding of its diverse cellular functions.

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

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