

## TCbLR/CD320 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P76797
Synonyms:	CD320 antigen; 8D6 antigen; FDC-signaling molecule 8D6; FDC-SM-8D6; Transcobalamin receptor; TCbLR; CD320
Species:	Mouse
Source:	HEK293
Accession:	Q9Z1P5 (M1-G208)
Gene ID:	54219
Molecular Weight:	Approximately 72.5 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from 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	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
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	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.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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