

Human CD8 beta/CD8B Protein

Cat. No. CD8-HM28B



Description

Source	Recombinant Human CD8 beta/CD8B Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus.
	It contains Leu22-Pro170.
Accession	P10966-1
Molecular Weight	The protein has a predicted MW of 42.72 kDa. Due to glycosylation, the protein migrates to 52-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

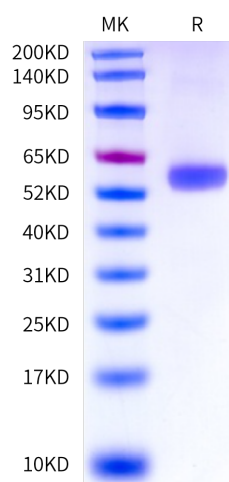
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD8 on thymocytes and thymus-derived T cells consists of disulfide-linked CD8a and CD8b chains, which are transmembrane proteins, containing N-terminal Ig domains, extended and glycosylated hinge and stalk regions, and transmembrane and cytoplasmic portions. The cytoplasmic portion of CD8β, mainly due to its palmitoylation, mediates partitioning of CD8 in lipid rafts, where it efficiently associates with p56 lck. In addition, the cytoplasmic portion of CD8β mediates constitutive association of CD8 with TCR/CD3. The resulting TCR-CD8 adducts exhibit high affinity for major histocompatibility complex (MHC)-peptide.

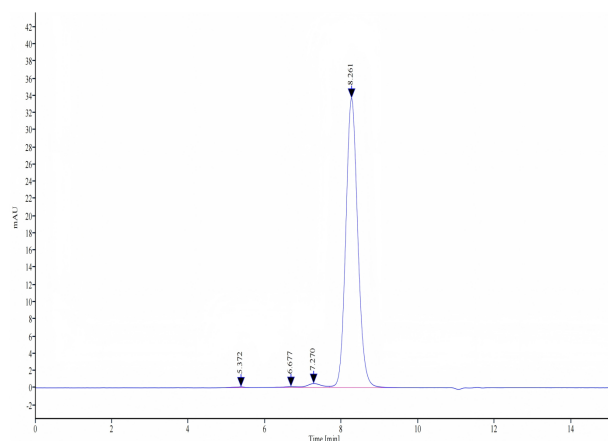
Assay Data

Bis-Tris PAGE



Human CD8 beta on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



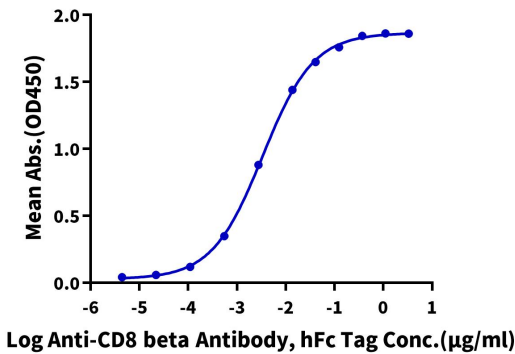
The purity of Human CD8 beta is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human CD8 beta, hFc Tag ELISA

0.05µg Human CD8 beta, hFc Tag Per Well



Immobilized Human CD8 beta, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD8 beta Antibody, hFc Tag with the EC50 of 3.4ng/ml determined by ELISA.