

Recombinant Human CD8B

Cat. No. CD8B-27892TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CD8 beta with a proprietary tag; Predicted MW 52.8 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	243 amino acids
Description	The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T-cell receptor on the T lymphocyte recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. This gene encodes the CD8 beta chain isoforms. Multiple alternatively spliced transcript variants encoding distinct membrane associated or secreted isoforms have been described. A pseudogene, also located on chromosome 2, has been identified.
Molecular Weight	52.800kDa inclusive of tags
Tissue specificity	Isoform 1, isoform 3, isoform 5, isoform 6, isoform 7 and isoform 8 are expressed in both thymus and peripheral CD8+ T-cells. Expression of isoform 1 is higher in thymus CD8+ T-cells than in peripheral CD8+ T-cells. Expression of isoform 6 is higher in pe

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MRPRLWLLAAQLTVLHGNSVLQQTPAYIKVQTNKMVMLSCEAKISLSNMRIYWLRQ RQAPSSDSHHEFLALWDSAKGTIHGEEVEQEKIAVFRDASRFILNLTSVKPEDSGIYF CMIVGSPELTFGKGTQLSVVDLPTTAQPTKKSTLKKRVCRLPRPETQKGPLCSPITL GLLVAGVLVLLVSLGVAIHLCCRRRRARLRFMKQPQGEISGTFVPQCLHGYYSNTT TSQKLLNPWILKT
Sequence Similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.

GENE INFORMATION

Gene Name	CD8B CD8b molecule [Homo sapiens]
Official Symbol	CD8B
Synonyms	CD8B; CD8b molecule; CD8 antigen, beta polypeptide 1 (p37) , CD8B1; T-cell surface glycoprotein CD8 beta chain;
Gene ID	926
mRNA Refseq	NM_001178100

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Protein Refseq	NP_001171571
MIM	186730
Uniprot ID	P10966
Chromosome Location	2p12
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem;
Function	MHC class I protein binding; coreceptor activity; protein binding;

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