CD8B1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD8B1, Polyclonal Antibody
Full Product Name	CD8B1, CT (CD8B, CD8B1, T-cell surface glycoprotein CD8 beta chain, CD8b) (MaxLight 650)
Product Gene Name	anti-CD8B1 antibody
Product Synonym Gene Name	CD8B
Product Synonym Names	CD8B; CD8B1; T-cell surface glycoprotein CD8 beta chain; CD8b
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	19.2kDa (172aa)
OMIM	186730
3D Structure	ModBase 3D Structure for P10966
Immunogen	CD8B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 148-176 amino acids from the C-terminal region of human CD8B1.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-CD8B1 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD8B1 antibody	Western Blot (WB), FLISA
Application Notes for anti-CD8B1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CD8B1 antibody	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.

Product References and Citations for anti-CD8B1 antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Chen, M.L., et al. Eur. J. Immunol. 39(12):3423-3435(2009). Thakral, D., et al. J. Immunol. 180(11):7431-7442(2008). Stove, V., et al. J. Virol. 79(17):11422-11433(2005). Moody, A.M., et al. J. Biol. Chem. 278(9):7240-7246(2003).
Other Notes	Small volumes of anti-CD8B1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD8B1 purchase	MBS6283585 is an antibody targeting CD8B1. Also known as CD8B1, CT (CD8B, CD8B1, T-cell surface glycoprotein CD8 beta chain, CD8b) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD8B1. It may not necessarily be applicable to this product.

NCBI GI #	4826667
NCBI GeneID	926
NCBI Accession #	NP_004922
UniProt Primary Accession #	P10966
UniProt Secondary Accession #	P14860; P14861; Q15980; Q496E0; Q496E1; Q496E2; Q9UDB4; Q9UDB5; Q9UDB6; Q9UDB7; Q9UDB8
UniProt Related Accession #	P10966
GenBank Nucleotide #	NM_004931.4
NCBI Official Full Name	T-cell surface glycoprotein CD8 beta chain isoform 5
NCBI Official Synonym Full Names	CD8b molecule
NCBI Official Symbol	CD8B
NCBI Official Synonym Symbols	LY3; P37; LEU2; LYT3; CD8B1
UniProt Protein Name	T-cell surface glycoprotein CD8 beta chain
UniProt Synonym Protein Names	CD_antigen: CD8b
UniProt Gene Name	CD8B
UniProt Synonym Gene Names	CD8B1
UniProt Entry Name	CD8B_HUMAN
NCBI Protein Information	T-cell surface glycoprotein CD8 beta chain
UniProt Comments for CD8B1	CD8B: Identifies cytotoxic/suppressor T-cells that interact with MHC class I bearing targets. CD8 is thought to play a role in the process of T-cell mediated killing. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 2p12 Cellular Component: T cell receptor complex; integral to plasma membrane; early endosome membrane; plasma membrane; extracellular region; external side of plasma membrane Molecular Function: protein binding; MHC class I protein binding; coreceptor activity Biological Process: regulation of immune response; T cell activation; viral reproduction; immune response; regulation of defense response to virus by virus; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on CD8B1	**1.** results suggest that mycoplasma induces a resistance to multiple drugs in hepatocarcinoma cells which required the interaction of P37 and Annexin A2. The pathway downstream this interaction needs to be explored

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