CD8a Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD8a, Monoclonal Antibody
Full Product Name	CD8a antibody
Product Gene Name	anti-CD8a antibody
Product Synonym Names	Monoclonal CD8a; Anti-CD8a; CD8a; CD-8a; Ly2; CD 8a
Clonality	Monoclonal
Isotype	IgG1
Clone Number	CT-8
Host	Mouse
Species Reactivity	Chicken CD8
Form/Format	Supplied as a liquid in 100mM BBS, pH 8.2.
Concentration	0.5 mg/ml (lot specific)
Specificity	Chicken CD8
Preparation and Storage	Store at 4 degree C.
Molecular Weight	30,214 Da
OMIM	186910
3D Structure	ModBase 3D Structure for P01732
Immunogen	CD8a antibody was raised in mouse using trhe alpha chain of chicken CD8 as the immunogen.
Product Categories/Family for anti-CD8a antibody	Immunology
Applications Tested/Suitable for anti-CD8a antibody	Flow Cytometry (FC/FACS), Immunohistochemistry (IHC), Immunoprecipitation (IP)
Related Product Information for anti-CD8a antibody	MBS532141 is an antibody targeting CD8a. Also known as CD8a antibody. Reactive in Chicken CD8. Host: Mouse. Mouse monoclonal CD8a antibody
Other Notes	Small volumes of anti-CD8a 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD8a. It may not necessarily be applicable to this product.

NCBI GI #	19344022
NCBI GeneID	925
NCBI Accession #	AAH25715.1
UniProt Primary Accession #	P01732
UniProt Secondary Accession #	Q13970; Q4ZG17; B4DT80; D6W5M8

UniProt Related Accession #	P01732
NCBI Official Full Name	CD8a molecule
NCBI Official Synonym Full Names	CD8a molecule
NCBI Official Symbol	CD8A
NCBI Official Synonym Symbols	CD8; MAL; p32; Leu2
UniProt Protein Name	T-cell surface glycoprotein CD8 alpha chain
UniProt Synonym Protein Names	T-lymphocyte differentiation antigen T8/Leu-2; CD_antigen: CD8a
Protein Family	T-cell surface glycoprotein
UniProt Gene Name	CD8A
UniProt Synonym Gene Names	MAL
UniProt Entry Name	CD8A_HUMAN
NCBI Protein Information	T-cell surface glycoprotein CD8 alpha chain
NCBI Summary for CD8a	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 acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class I MHC molecules. The coreceptor functions as either a homodimer composed of two alpha chains or as 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 alpha chain. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]
UniProt Comments for CD8a	CD8A: 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. CD8 alpha chains binds to class I MHC molecules alpha-3 domains. In general heterodimer of an alpha and a beta chain linked by two disulfide bonds. Can also form homodimers. Shown to be expressed as heterodimer on thymocytes and as homodimer on peripheral blood T-lymphocytes. Interacts with the MHC class I HLA-A/B2M dimer. Interacts with LCK in a zinc-dependent manner. 2 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; plasma membrane; extracellular region; external side of plasma membrane Molecular Function: protein binding; protein homodimerization activity; MHC class I protein binding; coreceptor activity; protein kinase binding Biological Process: antigen processing and presentation; regulation of immune response; T cell activation; T cell mediated immunity; immune response; cytotoxic T cell differentiation; positive regulation of calcium-mediated signaling; defense response to virus; transmembrane receptor protein tyrosine kinase signaling pathway Disease: Cd8 Deficiency, Familial
Research Articles on CD8a	**1.** We suggest that unique set of interactions between CEACAM5, CD1d, and CD8 render CD1d more class I-like molecule, facilitating antigen presentation and activation of CD8(+)-suppressor regulatory T cells.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-chicken-antibody/cd8a/532141