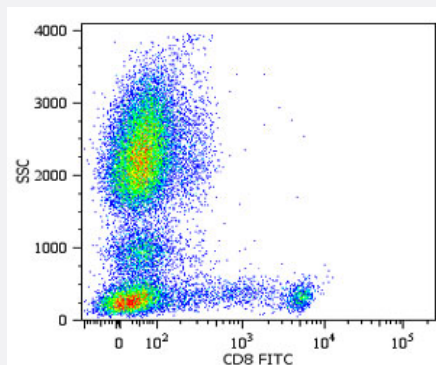


# CD8 monoclonal antibody, clone MEM-31

Catalog # MAB3844      Size 100 ug

## Applications



### Flow Cytometry

Surface staining of human peripheral blood cells with CD8 monoclonal antibody, clone MEM-31 (Cat # MAB3844) conjugated with FITC.

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against native CD8.
<b>Immunogen</b>	Native purified CD8 from human crude thymus membrane fraction.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	32-34
<b>Reactivity</b>	Human
<b>Specificity</b>	This antibody recognizes a conformationally-dependent epitope of CD8, a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. CD8 is a disulfide-linked dimer and exists as a CD8a homodimer or CD8a/b heterodimer (each monomer approx. 32-34 KDa). This antibody does not react with formaldehyde-fixed cells; negative in Western Blot application.
<b>Form</b>	Liquid
<b>Isotype</b>	IgG2a
<b>Recommend Usage</b>	The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Immunoprecipitation
- Flow Cytometry

Surface staining of human peripheral blood cells with CD8 monoclonal antibody, clone MEM-31 (Cat # MAB3844) conjugated with FITC.

## Gene Info — CD8A

Entrez GeneID	<a href="#">925</a>
Gene Name	CD8A
Gene Alias	CD8, Leu2, MAL, p32
Gene Description	CD8a molecule
Omim ID	<a href="#">186910 608957</a>
Gene Ontology	<a href="#">Hyperlink</a>

Gene Summary	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 (APC) 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 isoforms. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
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Other Designations	CD8 antigen alpha polypeptide CD8 antigen, alpha polypeptide (p32) Leu2 T-lymphocyte antigen OKT8 T-cell antigen T cell co-receptor T-cell antigen Leu2 T-cell surface glycoprotein CD8 alpha chain T-lymphocyte differentiation antigen T8/Leu-2 T8 T-cell ant
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## Gene Info — CD8B

Entrez GeneID [926](#)

Gene Name CD8B

Gene Alias CD8B1, LYT3, Leu2, Ly3, MGC119115

Gene Description CD8b molecule

Omim ID [186730](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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 antigen 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. [provided by RefSeq]

**Other Designations**

CD8 antigen, beta polypeptide (p37)|CD8 antigen, beta polypeptide 1 (p37)|CD8b antigen|OTTHUMP00000160761|T lymphocyte surface glycoprotein beta chain|T-cell surface glycoprotein CD8 beta chain

## Publication Reference

- [Coreceptor CD8-driven modulation of T cell antigen receptor specificity.](#)

van den Berg HA, Wooldridge L, Laugel B, Sewell AK.

Journal of Theoretical Biology 2007 Nov; 249(2):395.

- [CD8 Raft localization is induced by its assembly into CD8alpha beta heterodimers, Not CD8alpha alpha homodimers.](#)

Pang DJ, Hayday AC, Bijlmakers MJ.

The Journal of Biological Chemistry 2007 May; 282(18):13884.

- [Monoclonal antibodies against human leucocyte antigens. II. Antibodies against CD45 \(T200\), CD3 \(T3\), CD43, CD10 \(CALLA\), transferrin receptor \(T9\), a novel broadly expressed 18-kDa antigen \(MEM-43\) and a novel antigen of restricted expression \(MEM-74\).](#)

Horejsí V, Angelisová P, Bazil V, Kristofová H, Stoyanov S, Stefanová I, Hausner P, Vosecký M, Hilgert I.

Folia Biol (Praha) 1988 Jan; 34(1):23.

## Pathway

- [Antigen processing and presentation](#)
- [Antigen processing and presentation](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Hematopoietic cell lineage](#)
- [Hematopoietic cell lineage](#)
- [Primary immunodeficiency](#)
- [Primary immunodeficiency](#)
- [T cell receptor signaling pathway](#)
- [T cell receptor signaling pathway](#)

## Disease

- [Tobacco Use Disorder](#)