

CD8A/CD8B monoclonal antibody, clone RFT8 (APC/CY7)

Catalog # MAB6030

Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native CD8A/CD8B.
Immunogen	Native purified from human thymocytes and E-rosetted lymphocytes.
Host	Mouse
Reactivity	Human
Specificity	Specificity human CD8
Form	Liquid
Conjugation	APC/Cy7
Isotype	IgG1
Recommend Usage	Flow Cytometry (10 ul/10 ⁶ cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. 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

- Immunohistochemistry (Frozen sections)
- Flow Cytometry

Gene Info — CD8A

Entrez GeneID [925](#)**Gene Name** CD8A**Gene Alias** CD8, Leu2, MAL, p32**Gene Description** CD8a molecule**Omim ID** [186910 608957](#)**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 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]

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

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|OTTH UMP00000160761|T lymphocyte surface glycoprotein beta chain|T-cell surface glycoprotein CD8 beta chain

Publication Reference

- [The CD8 coreceptor revisited: one chain good, two chains better.](#)

Zamoyska R.

Immunity 1994 Jul; 1(4):243.

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](#)