

Product datasheet for **SM581**

CD8A Mouse Monoclonal Antibody [Clone ID: CT6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CT6
Applications:	FC, IHC
Recommended Dilution:	Immunohistochemistry on Frozen Sections: 1/100. Flow Cytometry: Use 10 µl of 1/100 diluted antibody to label 10e6 lymphocytes in 100 µl.
Reactivity:	Guinea Pig
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peritoneal T-cells.
Specificity:	Mouse anti Guinea Pig CD8 antibody, clone CT6 reacts with guinea pig CD8 present on cytotoxic T-cells. CD 8 comprises 2 subunits, alpha and beta and exists as either an alpha/alpha homodimer or an alpha/beta heterodimer. Sequence suggests that guinea pig CD8 is more closely related to human than rat or mouse CD8 (Nagarajan et al. 2004)
Formulation:	State: Supernatant State: Concentrated Tissue Culture Supernatant with 0.09% Sodium Azide and 0.7% BSA
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD8a molecule
Database Link:	Entrez Gene 925 Human P01732



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Background:	The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell to 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.
Synonyms:	CD8 alpha chain, CD8A, MAL
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane
Protein Pathways:	Antigen processing and presentation, Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway