Product datasheet

Anti-CD8 antibody [LT8] (FITC) ab28010

Overview

Product name          Anti-CD8 antibody [LT8] (FITC)
Description           Mouse monoclonal [LT8] to CD8 (FITC)
Host species          Mouse
Conjugation           FITC. Ex: 493nm, Em: 528nm
Tested applications   Suitable for: Flow Cyt
Species reactivity    Reacts with: Human, Rhesus monkey
Immunogen             Tissue/cell preparation (Human) - normal human blood lymphocytes.

Properties

Form                  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C.
Storage buffer        pH: 7.40
                      Preservative: 0.09% Sodium azide
                      Constituents: PBS, 1% BSA
Purity                Ion Exchange Chromatography
Purification notes    Ion exchange chromatography.
Clonality             Monoclonal
Clone number          LT8
Myeloma               x63-Ag8.653
Isotype               IgG1

Applications

Our Abpromise guarantee covers the use of ab28010 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
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.

Involvement in disease
Defects in CD8A are a cause of familial CD8 deficiency (CD8 deficiency) [MIM:608957]. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections.

Sequence similarities
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Post-translational modifications
All of the five most C-terminal cysteines form inter-chain disulfide bonds in dimers and higher multimers, while the four N-terminal cysteines do not.

Cellular localization
Secreted and Cell membrane.

Form
CD8 beta tissue specificity: Isoform 1, isoform 3, isoform 5, isoform 6, isoform 7 and isoform 8 are expressed in both thymus and peripheral CD8+ T-cells. Expression of isoform 1 is higher in thymus CD8+ T-cells than in peripheral CD8+ T-cells. Expression of isoform 6 is higher in peripheral CD8+ T-cells than in thymus CD8+ T-cells. CD8 beta PTM: Phosphorylated as a consequence of T-cell activation.

Images
Staining of human peripheral blood lymphocytes with mouse anti-human CD8 - FITC conjugate (ab28010).

Flow Cytometry - Anti-CD8 antibody [LT8] (FITC)
(ab28010)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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