

Product Specification Sheet

Antibody to Human CD8

Cat # AB-14810

Mouse monoclonal Anti-Human CD8 IgG

Size: 100 ug

CD8 is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. CD8 acts as a co-receptor, 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 CD8 is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha (protein accession #P01732-1, 214 aa membrane form and soluble or secreted form, sCD8a, 198-aa) and beta chains share significant homology to immunoglobulin variable light chains. CD8 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.

CD8, CD8A, MAL, p32

Source of Antigen and Antibodies

Antigen	Purified human PBL CD8+ T cells
Ab Host/type	Mouse, monoclonal IgG2a (#AB-14810) supplied as IgG purified by ion exchange and Protein A/G chromatography
2-ab	Goat Anti-mouse IgG2a-HRP conjugate Cat # 40127 (AP, biotin, FITC conjugates also available)
-ve control IgG	Cat # 20102-102, Mouse IgG2a isotype control, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage

Purified IgG

100 ul solution lyophilized powder
 Buffer: PBS pH 7.4, 0.1% BSA, .00.05% sodium azide
Reconstitute powder 100 ul of PBS

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Specificity and crossreactivity

Anti-human CD8 recognizes human CD8. Antibody crossreactivity with D-dimer from other species (mouse, rat etc) have not been studies.

Recommended Usage

ELISA

Suitable for coating or tracer..

Western Blotting (1:1K-5K) using Chemiluminescence substrates.

Histochemistry & Immunofluorescence: Staining antibody, weakly cytotoxic. For staining, use 10 µl/106 cells. Titer for cytotoxicity should be determined by the investigator..

Refs: Littman DR et al (1985) Cell 40, 237-246; Sukhatme VP (1985) Cell 40, 591-597; Giblin P (1989) PNAS 86, 998-1002; Show PM (1983) JBC 258, 14675-14681

*This product is for In vitro research use only.

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AB-14810

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