

Anti-CD8 [OKT8] Standard Size Ab02332-2.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

Isotype and Format: Mouse IgG2a, Fc Silent™, Kappa

Clone Number: OKT8

Alternative Name(s) of Target: T-cell surface glycoprotein CD8 alpha chain; CD8A; T-lymphocyte differentiation antigen T8/Leu-2

UniProt Accession Number of Target Protein: P01732

Published Application(s): functional assay, FC, IF

Published Species Reactivity: Human

Immunogen: This antibody was raised by immunizing CAF mice with human thymocytes.

Specificity: This antibody is specific for the CD8 gene in humans. CD8 is an integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, it functions primarily as a coreceptor for MHC class I molecule:peptide complex.

Application Notes: CD8+ T cell effector function assays were preformed using this antibody. The cell lines used for this study are HLA A*0201-restricted CD8+ T cell clones: 1) ILA1, specific for the human telomerase reverse transcriptase-derived epitope ILAKFLHWL (residues 540-548) (30, 31); 2) ALF3, specific for the influenza A matrix protein (M1)-derived epitope GILGFVFTL (residues 58-66); and 3) MEL5 and MEL187.c5, specific for the Melan-A-derived epitope ELAGIGILTV (residues 26-35) (32). The HLA B*0801-restricted CD8+ T cell clone LC13 is specific for the EBV EBNA3A-derived epitope FLRGRAYGL (residues 339-347) (33), and the HLA B*3508-restricted CD8+ T cell clone SB10 is specific for the EBV BZLF1-derived epitope LPEPLPQGQLTAY (residues 52-64) (34). The HLA DR*0101-restricted CD4+ T cell clone C6 recognizes the influenza A hemagglutinin-derived epitope PKYVKQNTLKLAT (residues 307-319). CD8+ T cell lines specific for the EBV BMLF1-derived epitope GLCTLVAML (residues 280-288). (Clement et al, 2011; pmid:21677135). Lysis of Lymphoid Populations was tested with this antibody and rabbit complement (Reinherz et al, 1980; pmid:6966400). Human thymocytes and peripheral T cells were analyzed using flow cytometry with this antibody (Reinherz et al, 1980; pmid:6966400). Human CTLs were used for flow cytometry with this antibody (Wooldridge et al, 2003; pmid:14662868). Human CD8+ T lymphocytes and NK cells were used in an apoptosis study with this antibody (Contini et al, 2003; pmid:12594841). A cytotoxic assay was preformed on CTLs with this antibody. The assay used was a standard 4-h 51Cr-release assay (Contini et al, 2003; pmid:12594841). This antibody was used for an immunofluorescence

experiment on fresh human peripheral mononuclear blood cells (PBMC) (Gattass et al, 1988; pmid:3258844). A competition assay was preformed on PBMC with this antibody. part of this assay was a flow cytometry experiment (Gattass et al, 1988; pmid:3258844). A standard 4h 51 chromium release assay was used to evaluate cytotoxic activities of CTLs. In the assay this antibody was used (Hermann et al, 1993; pmid:8103147).

Antibody First Published in: Reinherz et al. Discrete stages of human intrathymic differentiation: Analysis of normal thymocytes and leukemic lymphoblasts of T-cell lineage Proc Natl Acad Sci U S A. 1980 Mar;77(3):1588-92. [PMID:6966400](#)

Note on publication: A series of monoclonal antibodies was used to define three discrete stages of human intrathymic T-cell differentiation.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.