

CD8a (RPA-T8) Mouse mAb (FITC Conjugate)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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| Applications: IF-IC, FC-FP, FC-L | Reactivity: | Sensitivity: Endogenous | Source/Isotype: Mouse IgG1 | UniProt ID: #P01732 | Entrez-Gene Id: 925 |
|---|-------------|--|-------------------------------|-------------------------------|--|
| Product Usage Information | | Application Immunofluorescence (In Flow Cytometry (Fixed/P Flow Cytometry (Live) | - | | Dilution 1:400 - 1:1600 1:20 1:20 |
| Storage | | Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze. | | | |
| Specificity/Sensitivity | | CD8 α (RPA-T8) Mouse mAb (FITC Conjugate) recognizes endogenous levels of total CD8 α protein. This antibody detects an epitope within the extracellular domain. | | | |
| Source / Purification | | This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. | | | |
| Description | | This Cell Signaling Technology antibody is conjugated to FITC and tested in-house for direct flow cytometry analysis in human cells. | | | |
| Background | | Cluster of Differentiation 8 (CD8) is a disulphide-linked heterodimer consisting of the unrelated α and β subunits. Each subunit is a glycoprotein composed of a single extracellular Ig-like domain, a polypeptide linker, a transmembrane part and a short cytoplasmic tail. On T cells, CD8 is the coreceptor for the T cell receptor (TCR), and these two distinct structures recognize the Antigen–Major Histocompatibility Complex (MHC). Specifically, the Ig-like domain of CD8 α interacts with the α -domain of the MHC class I molecule. CD8 ensures specificity of the TCR–antigen interaction, prolongs the contact between the T cell and the antigen presenting cell, and the α chain recruits the tyrosine kinase Lck, which is essential for T cell activation (1). The RPA-T8 antibody is widely used as a phenotypic marker for CD8 on cytotoxic T cells and thymocytes (2,3), as well as on certain cell types that do not express the TCR, including some NK cells (4). | | | |
| Background References | | 1. Zamoyska, R. (1994) <i>Immunity</i> 1, 243-46. 2. Friberg, H. et al. (2011) <i>Immunol Cell Biol</i> 89, 122-9. 3. Reissfelder, C. et al. (2015) <i>J Clin Invest</i> 125, 739-51. 4. Addison, E.G. et al. (2005) <i>Immunology</i> 116, 354-61. | | | |
| Species Reactivity | | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | |
| Applications Key | | IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: | | | |

Flow Cytometry (Live)

Cross-Reactivity Key

H: Human

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