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CD8 α (RPA-T8) Mouse mAb (APC-Cy7[®] Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

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| Applications: FC-L | Reactivity: H | Sensitivity: Endogenous | Source/Isotype: Mouse IgG1 | UniProt ID: #P01732 | Entrez-Gene Id: 925 |
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| Product Usage Information | Application Flow Cytometry (Live) | Dilution 1:20 |
| Storage | Supplied in 10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH 7.2. This product is stable for 6 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 (APC-Cy7 [®] 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 APC-Cy7 [®] 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 3-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 | <ol style="list-style-type: none"> 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. | |

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| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). |
| Applications Key | FC-L: Flow Cytometry (Live) |
| Cross-Reactivity Key | H: Human |
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