

Anti-Human IL-2 Antibody, Clone MT8G10, Biotin

Mouse monoclonal antibody against human, cynomolgus IL-2

Catalog #100-1465

250 µg

0.5 mg/mL

Product Description

This mouse monoclonal antibody (clone MT8G10) reacts with human interleukin 2 (IL-2). IL-2 is an ~16 kDa cytokine composed of a four-alpha-helix bundle produced primarily by CD4+ T helper (Th) cells and to a lesser degree by CD8+ T cells, natural killer (NK) cells, and NK T cells. It binds to the IL-2 receptor α (IL-2R α ; CD25), which complexes with IL-2R β (CD122) and γ c (CD132) subunits and leads to the activation of JAK1/3, PI3K-AKT, and MAPK signaling pathways. IL-2 mediates T cell growth and proliferation, facilitates the differentiation of CD4+ T cells to Th1 and Th2 cells, promotes CD8+ T cell and NK cell cytolytic activity, and drives the development of CD4+FOXP3+ regulatory T cells. The MT8G10 antibody is suitable for the detection of intracellular IL-2 by flow cytometry.

Target Antigen:	IL-2
Alternative Names:	IL2, interleukin 2, interleukin-2, lymphokine, T cell growth factor, TCGF
Gene ID:	3558
Species Reactivity:	Human, Cynomolgus
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	MT8G10
Isotype:	IgG1
Immunogen:	Recombinant human IL-2
Conjugate:	Biotin

Applications

Verified Applications: ELISA, ELISpot, FC, FluoroSpot

Reported Applications: ELISA, ELISpot, FC, FluoroSpot

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Purification: The antibody was purified by affinity chromatography and conjugated with biotin.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Stable until expiry date (EXP) on label.

Directions for Use: The suggested use of this antibody is: ELISA, 1:2000; ELISpot, 1:2000; FC, 1:250; FluoroSpot, 1:500.

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

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