# Human CD25/IL-2R alpha mFluor™ Violet 610-Conjugated Antibody

Monoclonal Mouse $IgG_{2A}$ Clone # 24212

Catalog Number: FAB1020MFV610

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human CD25/IL-2 Rα in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) IL-2 Rγ or rhIL-15 Rα is observed. |
| **Source** | Monoclonal Mouse $IgG_{2A}$ Clone # 24212 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | *S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human CD25/IL-2 Rα<br>Glu22-Cys213<br>Accession # P01589 |
| **Conjugate** | mFluor™ Violet 610<br>Excitation Wavelength: 421 nm<br>Emission Wavelength: 613 nm |
| **Formulation** | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

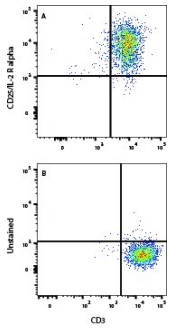
## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Flow Cytometry** | 5 µL/$10^6$ cells | PBMCs treated with 5 ug/mL PHA for 5 days |

## DATA

### Flow Cytometry




**Detection of CD25/IL-2R alpha in PBMCs treated with 5 ug/mL PHA for 5 days cells by Flow Cytometry.** PBMCs treated with 5 ug/mL PHA for 5 days were stained with Mouse Anti-Human CD3ε APC-conjugated Monoclonal Antibody (Catalog # FAB100A) and either (A) Mouse Anti-Human CD25/IL-2R alpha mFluor™ Violet 610-Conjugated Monoclonal Antibody (Catalog # FAB1020MFV610) or (B) unstained cells. View our protocol for Staining Membrane-associated Proteins.

## PREPARATION AND STORAGE

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| **Shipping** | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | **Do not freeze.**<br>• 12 months from date of receipt, 2 to 8 °C as supplied. |

## BACKGROUND

Human CD25, also known as IL-2 receptor alpha (IL-2 Rα) and asTac antigen, was initially identified as a 55 kDa membrane glycoprotein that is capable of binding IL-2. The IL-2 Rα cDNA encodes a 272 amino acid residue precursor Type I membrane protein with a 21 residue signal peptide, a 219 residue extracellular region, a 19 residue transmembrane region and a 13 residue cytoplasmic domain. IL-2 Rα lacks structural features characteristic of members of the cytokine receptor superfamily. By itself, IL-2 Rα binds IL-2 with low affinity. However, when IL-2 Rα is associated with the IL-2 receptor beta and gamma chains, a high affinity heterotrimeric receptor complex that transduces IL-2 signals is formed. Soluble forms of many cytokine receptors have been reported, and a soluble form of IL-2 Rα (IL-2 sRα) appears in serum, concomitant with its increased expression on cells. The function of the soluble IL-2 Rα is unclear. Increased levels of IL-2 sRα in biological fluids reportedly correlate with increased T and B cell activation and immune system activation. Increased serum concentration of IL-2 sRα has been observed in patients with a variety of inflammatory conditions and in the course of some leukemias and lymphomas.

## PRODUCT SPECIFIC NOTICES

mFluor™ is a trademark of AAT Bioquest, Inc.



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