

# Human CD25/IL-2 R alpha Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG<sub>2A</sub> Clone # 24212

Catalog Number: FAB1020G

100 Tests, 25 Tests

## DESCRIPTION

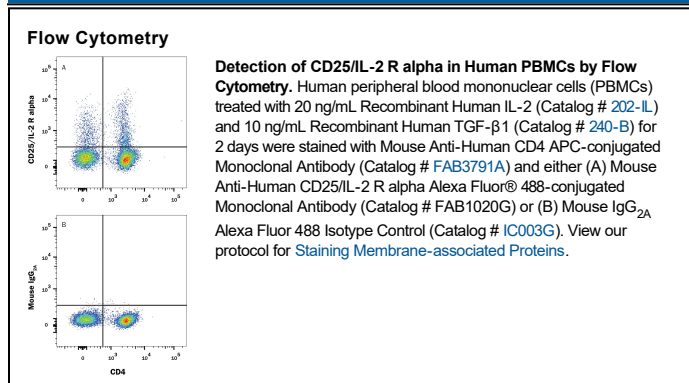
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CD25/IL-2 Rα in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) IL-2 Rγ or rhIL-15 Rα is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 24212
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human CD25/IL-2 Rα Glu22-Cys213 Accession # P01589
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	5 µL/10 <sup>6</sup> cells	See Below

## DATA



## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

Human CD25, also known as IL-2 receptor alpha (IL-2 Rα) and αTac 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.

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## PRODUCT SPECIFIC NOTICES

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