

# Human IL-10 R $\alpha$ Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 714212

Catalog Number: FAB2742S

100  $\mu$ g

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>        | Detects human IL-10 R $\alpha$ in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse IL-10 R alpha or recombinant human (rh) IL-10 R beta is observed. In Western blots, no cross-reactivity with rhIL-10 R beta is observed.                                                         |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 714212                                                                                                                                                                                                                                                                                |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived and <i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human IL-10 R $\alpha$ His22-Asn235<br>Accession # Q13651                                                                                                                                                        |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                                                                                                                                                                                                                                                  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL 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.

|                       | <b>Recommended Concentration</b>     | <b>Sample</b>                      |
|-----------------------|--------------------------------------|------------------------------------|
| <b>Flow Cytometry</b> | 0.25-1 $\mu$ g/10 <sup>6</sup> cells | Human peripheral blood lymphocytes |

## 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><br><ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul> |

## BACKGROUND

IL-10, initially designated cytokine synthesis inhibitory factor (CSIF), is a potent immunosuppressant of macrophage functions. IL-10 is also a pleiotropic cytokine with multiple immunostimulatory as well as immunosuppressive effects on a variety of other cell types. IL-10 binds specifically and with high affinity to cell-surface receptors. Mouse and human cDNA clones encoding the ligand-binding IL-10 receptor (IL-10 R) have been isolated. The IL-10 R mRNA has been detected in all cell types that are known to respond to IL-10. Human and mouse IL-10 receptors are structurally related to the IFN- $\gamma$  receptor. These receptors are members of the class II subgroup of the cytokine receptor superfamily. The deduced amino acid sequence of human IL-10 R is approximately 60% identical to mouse IL-10 R. Although human IL-10 has cross-species activities and is active on mouse cells, mouse IL-10 is species-specific in its actions and does not bind to the human IL-10 receptor. The human IL-10 R gene has been mapped to chromosome 11q23.3. Recombinant IL-10 soluble receptor, consisting of the extracellular domain of IL-10 R, binds IL-10 with high affinity in solution and is a potent IL-10 antagonist.

## PRODUCT SPECIFIC NOTICES

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