

DESCRIPTION

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| Species Reactivity | Human |
| Specificity | Detects human IFN- γ R1 in direct ELISAs and Western blots. In direct ELISAs, this antibody does not cross-react with recombinant mouse IFN- γ R1, recombinant human (rh) IFN- γ R2, or rhIL-10 R β . |
| Source | Monoclonal Mouse IgG ₁ Clone # 92101 |
| Purification | Protein A or G purified from ascites |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human IFN- γ R1 Glu18-Gly245 Accession # P15260.1 |
| Conjugate | Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm |
| Formulation | Supplied 0.2 mg/mL 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.

| | Recommended Concentration | Sample |
|-----------------------|--------------------------------------|-----------------------------|
| Flow Cytometry | 0.25-1 μ g/10 ⁶ cells | Human whole blood monocytes |

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 | Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

The high-affinity IFN- γ receptor complex is made up of two type I membrane proteins, IFN- γ R1 (IFN- γ R α) and IFN- γ R2 (IFN- γ R β). Both proteins are members of the type II cytokine receptor family and share approximately 52% amino acid sequence identity. IFN- γ R1 is the ligand-binding subunit that is necessary and sufficient for IFN- γ binding and receptor internalization. IFN- γ R2 is required for IFN- γ signaling but does not bind IFN- γ by itself. Human IFN- γ R1 cDNA encodes a 499 amino acid (aa) residue protein with a 17 aa signal peptide, a 228 aa extracellular domain, a 23 aa transmembrane domain, and a 221 aa intracellular domain. Human and mouse IFN- γ R1 share 52% amino acid sequence identity and bind IFN- γ in a species-specific manner. IFN- γ R1 is constitutively expressed in most cell types. Soluble IFN- γ R1 that binds IFN- γ has been detected in biological fluids.

References:

1. Bach, E.A. *et al.* (1997) *Annu. Rev. Immunol.* **15**:563.

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