

Mouse IFN-γ R1/CD119 Antibody

Monoclonal Hamster IgG₁ Clone # 2E2.4 Catalog Number: MAB1026

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse IFN-γ R1/CD119 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) IFN-γ R1, rhIFN-γ R2, or rhIL-10 Rβ is observed.	
Source	Monoclonal Hamster IgG ₁ Clone # 2E2.4	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Recombinant mouse IFN-γ R1/CD119 Extracellular domain	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	
APPLICATIONS		
Please Note: Optimal diluti	ions should be determined by each laboratory for each applica	ation. General Protocols are available in the Technical Information section on our website.
	Recommended Concentration	Sample
Western Blot	1 μg/mL	Recombinant Mouse IFN-γ R1/CD119 Fc Chimera (Catalog # 1026-GR)
PREPARATION AND	STORAGE	
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	

BACKGROUND

Stability & Storage

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% overall 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 similarity 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. The recombinant soluble IFN- γ R1 produced at R&D Systems has been shown to bind IFN- γ with high affinity and is a potent IFN- γ antagonist.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

6 months, -20 to -70 °C under sterile conditions after reconstitution.

References:

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

biotechne