Mouse IFN-α/β R2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1083

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IFN-α/β R2 in direct ELISAs and Western blots. In Western blots, approximately 10% cross-reactivity with recombinant mouse (rm) IFN-γ R2 and rmIL-20 Rα is observed, 5% cross-reactivity with recombinant human (rh) IL-10 Rβ, rmIFN-γ RI, and rhIL-20 Rβ is observed and less than 1% cross-reactivity with rhIFN-β Rα is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IFN-α/β R2 Ser22-Ala239 (Lys160Asn) Accession # Q9D1R7
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.

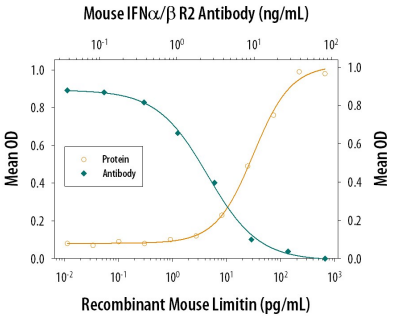
APPLICATIONS

Please Note: *Optimal 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
Western Blot	0.1 µg/mL	Recombinant Mouse IFN-α/β R2
Flow Cytometry	10 µL/10^6 cells	A20 cells
Neutralization	Measured by its ability to neutralize IFN-α/β R2-mediated inhibition of EMCV-induced cytopathy in the L-929 mouse fibroblast cell line. The Neutralization Dose (ND_{50}) is typically 2-10 µg/mL in the presence of 30 pg/mL Recombinant Mouse Limitin.	

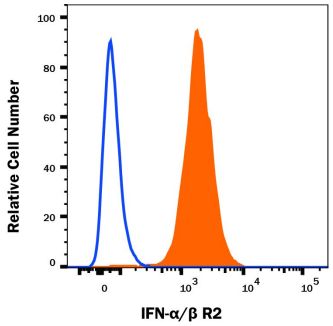
DATA

Neutralization



Limitin Inhibition of EMCV-induced Cytopathy and Neutralization by Mouse IFN-α/β R2 Antibody. Recombinant Mouse Limitin (Catalog # 1535-LM) reduces the Encephalomyocarditis Virus (EMCV)-induced cytopathy in the L-929 mouse fibroblast cell line in a dose-dependent manner (orange line). Inhibition of EMCV activity elicited by Recombinant Mouse Limitin (30 pg/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse IFN-α/ß R2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1083). The ND_{50} is typically 2-10 µg/mL.

Flow Cytometry



Detection of IFN-α/β R2 in A20 cells by Flow Cytometry A20 cells were stained with Goat Anti-Mouse IFN-α/β R2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1083, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram) followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**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.

BACKGROUND

IFN-α/β R2 belongs to the type II cytokine receptor family. It complexes with IFN-α/β R1 to form the signaling receptor complex for the family of α and β IFN subtypes. By alternative splicing, IFN-α/β R2 can exist as a secreted soluble protein or as a type I membrane protein.

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