Mouse IFN-κ Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5206

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IFN-κ in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse IFN-κ Leu22-Lys199 (Cys174Tyr) Accession # Q7TSL0
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.

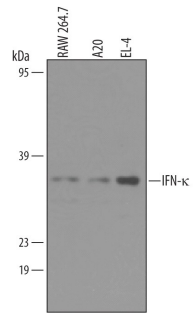
APPLICATIONS

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	1 µg/mL	See Below
Simple Western	10 µg/mL	See Below

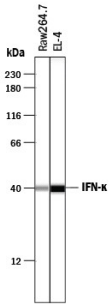
DATA

Western Blot



Detection of Mouse IFN-κ by Western Blot. Western blot shows lysates of RAW 264.7 mouse monocyte/macrophage cell line, A20 mouse B cell lymphoma cell line, and EL-4 mouse lymphoblast cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Mouse IFN-κ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5206) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for IFN-κ at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Simple Western



Detection of Mouse IFN-κ by Simple Western™. Simple Western lane view shows lysates of RAW 264.7 mouse monocyte/macrophage cell line and EL-4 mouse lymphoblast cell line, loaded at 0.2 mg/mL. A specific band was detected for IFN-κ at approximately 40 kDa (as indicated) using 10 µg/mL of Sheep Anti-Mouse IFN-κ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5206) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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-κ (Interferon kappa) is a secreted, nonglycosylated polypeptide that belongs to the IFN-κ subclass of the type I interferon family of cytokines. It is expressed by macrophages in mice, and monocytes, dendritic cells and keratinocytes in human. IFN-κ induces TNF-α, IL-10 and MCP-1 production by monocytes. Mouse IFN-κ precursor is 199 amino acids (aa) in length. It contains a 21 aa signal sequence, plus a 178 aa mature region. There are two intrachain disulfide bonds plus a fifth unpaired cysteine. Mature mouse IFN-κ (aa 22-199) shares 68% and 30% aa identity with rat and human IFN-κ, respectively.

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