

Human IRF1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF4830

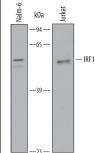
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human IRF1 in direct ELISAs and Western blots. In direct ELISAs, approximately 60% cross-reactivity with recombinant mouse IRF1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human IRF1 Thr147-Pro325 Accession # P10914
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.

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

DATA





Detection of Human IRF1 by Western Blot. Western blot shows lysates of Nalm-6 human Pre-B acute lymphocytic leukemia cell line and Jurkat human acute T cell leukemia cell line. PVDF Membrane was probed with 1 μ g/mL of Human IRF1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4830) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for IRF1 at approximately 48 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 9.

PREPARATION AND STORAGE

Reconstitution	tion 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

IRF1 (interferon regulatory factor 1) is a 45 kDa member of the IRF family of proteins. It is induced by TLR9 and INF-y stimulation, and positively regulates the expression of IFN-β, iNOS and 1L-12p35. Human IRF1 is 325 amino acids (aa) in length. It contains an N-terminal DNA-binding basic region (aa 1-140) and an acidic C-terminus (aa 147-325). Lys275 and 299 can be SUMOylated, which blocks activity, or ubiquinated at Lys299, which initiates degradation. There is a splice variant that shows an 11 aa substitution for the C-terminal 86 amino acids. Over aa 171-325, human IRF1 shares 83% aa identity with both canine and porcine IRF1.

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