

DESCRIPTION

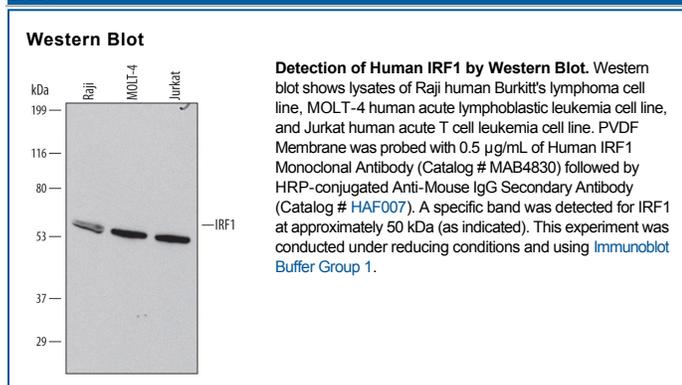
Species Reactivity	Human
Specificity	Detects human IRF1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) IRF2 (aa 151-349), rhIRF3 (aa 206-427), rhIRF4 (aa 130-451), rhIRF5 (aa 214-395), rhIRF6 (aa 176-366), rhIRF7 (aa 289-503), rhIRF8 (aa 255-426), rhIRF9 (aa 238-393), or recombinant mouse IRF1 (aa 147-329) is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 686703
Purification	IgM-specific Affinity-purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -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 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	0.5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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. <ul style="list-style-type: none"> ● 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-γ stimulation, and positively regulates the expression of IFN-β, iNOS and 1L-12 p35. 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 141-325). Lys275 and 299 can be SUMOylated, which blocks activity, or ubiquitinated 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.