

## DESCRIPTION

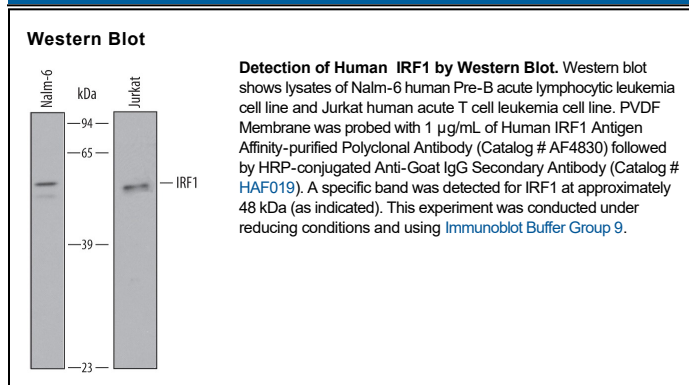
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IRF1 in direct ELISAs and Western blots. In direct ELISAs, approximately 60% cross-reactivity with recombinant mouse IRF1 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E.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

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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-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 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.