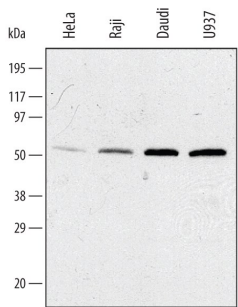
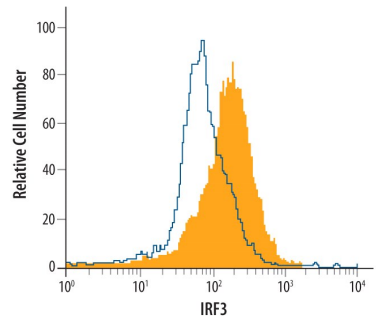
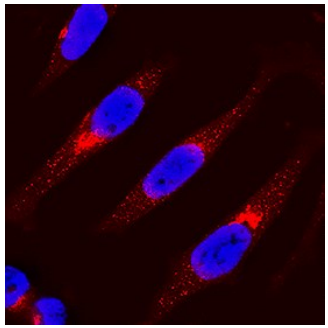


DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IRF3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 60% cross-reactivity with recombinant mouse IRF3 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human IRF3 Val206-Ser427 Accession # Q14653
<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 as a 0.2 µm filtered solution in PBS.

APPLICATIONS		
<b>Please Note:</b> Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below
<b>Intracellular Staining by Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA	
<p><b>Western Blot</b></p>  <p><b>Detection of Human IRF3 by Western Blot.</b> Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, U937 human histiocytic lymphoma cell line, Raji human Burkitt's lymphoma cell line, and Daudi human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human IRF3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4019) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for IRF3 at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Intracellular Staining by Flow Cytometry</b></p>  <p><b>Detection of IRF3 in Daudi Human Cell Line by Flow Cytometry.</b> Daudi human Burkitt's lymphoma cell line was stained with Goat Anti-Human IRF3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4019, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.</p>

<p><b>Immunocytochemistry</b></p>  <p><b>IRF3 in HeLa Human Cell Line.</b> IRF3 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Goat Anti-Human IRF3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4019) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>
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#### 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

Interferon response factor 3 (IRF3) is a 50 kDa, 427 amino acid, member of the IRF family of proteins. Human IRF3 is a transcription factor that binds the interferon-sensitive response element (ISRE) and is activated by Toll-like receptors, TLR3 and TLR4. Viral entry or engagement of TLR3 or TLR4 stimulates IRF3 phosphorylation, nuclear translocation and stimulation of IFN production. There are potential alternate splice forms affecting IRF3 structure, one including a deletion of aa 201-327, a second with the same deletion and an alternate Met(147) start site, and a third with a 125 aa substitution of the C-terminal 100 aa. Over the region used as immunogen, aa 206-427, human IRF3 is 76% and 83% identical to the corresponding mouse and porcine proteins, respectively.