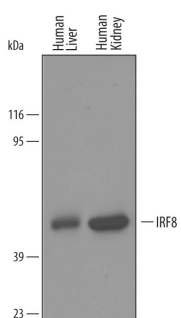
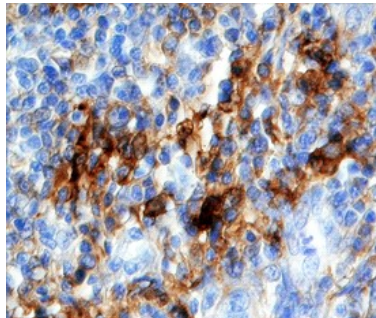


DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IRF8 in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody shows less than 1% cross-reactivity with recombinant human IRF1, 2, 3, 4, 5, 6, 7, and 9.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human IRF8 Ala255-Val426 Accession # Q02556
<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>Immunohistochemistry</b>	5-15 µg/mL	See Below

DATA	
<p><b>Western Blot</b></p>  <p><b>Detection of Human IRF8 by Western Blot.</b> Western blot shows lysates of human liver and kidney tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human IRF8 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5117) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for IRF8 at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>IRF8 in Human Lymphoma.</b> IRF8 was detected in immersion fixed paraffin-embedded sections of human lymphoma using 5 µg/mL Sheep Anti-Human IRF8 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5117) overnight at 4 °C. Tissue was stained with the Anti-Sheep HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>

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**

IRF8 (interferon regulatory factor 8; also ICSBP) is a 50 kDa member of the IRF family of proteins. It is expressed in myeloid, dendritic and B cells and interacts with PU.1 to regulate the expression of TLR4, IL-18, IL-12p35, and PTPN13, a Fas-associated phosphatase that blocks Fas-induced apoptosis. Human IRF8 is 426 amino acids (aa) in length. It contains an N-terminal DNA-binding basic region (aa 9-110) and at least one regulatory phosphorylation site at Tyr95. Over aa 255-426, human IRF8 shares 90% and 88% aa sequence identity with canine and mouse IRF8, respectively.