

DESCRIPTION

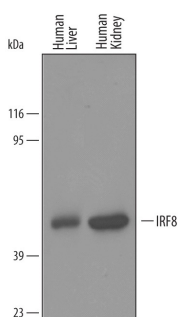
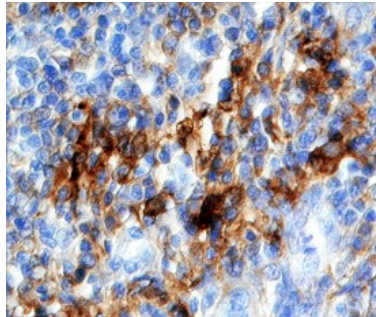
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| Species Reactivity | Human |
| Specificity | Detects human IRF8 in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody shows less than 1% cross-reactivity with recombinant human IRF1, 2, 3, 4, 5, 6, 7, and 9. |
| Source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

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 | 1 µg/mL | See Below |
| Immunohistochemistry | 5-15 µg/mL | See Below |

DATA

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| <p>Western Blot</p>  <p>Detection of Human IRF8 by Western Blot. 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>Immunohistochemistry</p>  <p>IRF8 in Human Lymphoma. 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 & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p> |
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PREPARATION AND STORAGE

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| Reconstitution | 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. <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

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.