

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IRF8 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human IRF4 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 809926
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<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.

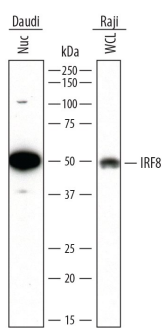
## APPLICATIONS

**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>	2 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below
<b>Simple Western</b>	20 µg/mL	See Below

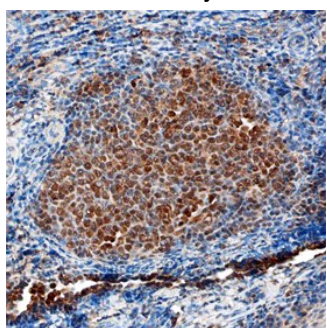
## DATA

**Western Blot**



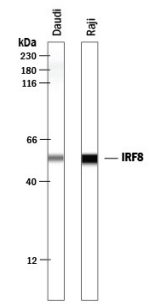
**Detection of Human IRF8 by Western Blot.** Western blot shows lysates of Daudi human Burkitt's lymphoma cell line and Raji human Burkitt's lymphoma cell line. Gels were loaded with 25 µg of nuclear extracts (Nuc) and whole cell lysate (WCL). PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human IRF8 Monoclonal Antibody (Catalog # MAB5117) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). 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 1.

**Immunohistochemistry**




**IRF8 in Human Tonsil.** IRF8 was detected in immersion fixed paraffin-embedded sections of human tonsil using Mouse Anti-Human IRF8 Monoclonal Antibody (Catalog # MAB5117) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to lymphocytes in germinal centers. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

**Simple Western**



**Detection of Human IRF8 by Simple Western™.** Simple Western lane view shows lysates of Daudi human Burkitt's lymphoma cell line and Raji human Burkitt's lymphoma cell line, loaded at 0.5 mg/mL. A specific band was detected for IRF8 at approximately 54 kDa (as indicated) using 20 µg/mL of Mouse Anti-Human IRF8 Monoclonal Antibody (Catalog # MAB5117). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<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>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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.