

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IRF3 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 482205
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human IRF3 aa 206-427 Accession # Q14653
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
Intracellular Staining by Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Western Blot</p> <p>Detection of Human IRF3 by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line, Daudi human Burkitt's lymphoma cell line, and Jurkat human acute T cell leukemia cell line. PVDF Membrane was probed with 1 µg/mL of Mouse Anti-Human IRF3 Monoclonal Antibody (Catalog # MAB4019) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for IRF3 at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Intracellular Staining by Flow Cytometry</p> <p>Detection of IRF3 in Daudi Human Cell Line by Flow Cytometry. Daudi human Burkitt's lymphoma cell line was stained with Mouse Anti-Human IRF3 Monoclonal Antibody (Catalog # MAB4019, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

IRF3 (interferon response factor 3) is a 60 kDa member of the IRF family of proteins. Human IRF3 contains one DNA binding domain (aa 7-107), a nuclear export signal (aa 139-149) and multiple phosphorylation sites (aa 395-407). Viral infection stimulates IRF3 phosphorylation, nuclear translocation and stimulation of IFN production. Alternate splice forms may exist. One will show a deletion of aa 201-327, a second will show the same deletion plus an alternate start site at Met147, and a third will show a 125 aa substitution for the C-terminal 100 aa (aa 328-427). Over aa 206-427, human IRF3 is 76% and 83% aa identical to mouse and pig IRF3, respectively.