Human IRF2BP1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6800

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IRF2BP1 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human IRF2BP1 Ala188-Glu356 Accession # Q8IU81
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 as a 0.2 µm filtered solution in PBS.

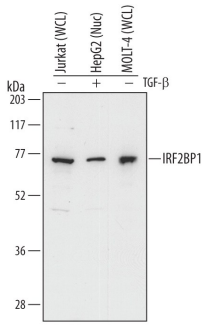
APPLICATIONS

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
Immunocytochemistry	5-15 µg/mL	See Below

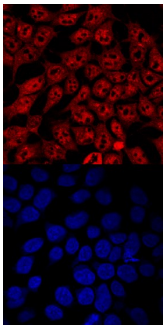
DATA

Western Blot



Detection of Human IRF2BP1 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, HepG2 human hepatocellular carcinoma cell line, and MOLT-4 human acute lymphoblastic leukemia cell line untreated (-) or treated (+) with 10 ng/mL Recombinant Human TGF-β1 (Catalog # 240-B) for 2 hours. Gels were loaded with 30 µg of whole cell lysate (WCL) and 10 µg of nuclear extracts (Nuc). PVDF Membrane was probed with 1 µg/mL of Sheep Anti-Human IRF2BP1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6800) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for IRF2BP1 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



IRF2BP1 in 293T Human Cell Line. IRF2BP1 was detected in immersion fixed 293T human embryonic kidney cell line using Sheep Anti-Human IRF2BP1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6800) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red, upper panel; Catalog # NL010) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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.** ● 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

IRF2BP1 (Interferon regulatory factor 2 binding protein 1) is a 64-66 kDa member of the IFR2BP family of proteins. It is widely expressed, and known to bind to the C-terminus of IRF-2, creating a transcriptional repressor complex. IRF2BP1 also bind to JDP2 (Jun dimerization protein 2), promoting its ubiquitination. Human IRF2BP1 is 584 amino acids (aa) in length. It contains two Zn-finger domains (aa 6-67 and 498-584), one coiled-coil region (aa 197-217), a Cys-rich region (aa 503-550), an N-terminal acetylation site at Ala2, and multiple utilized phosphorylation sites at Ser 66/125/186/384/421/436/453/457. Over aa 188-356, human and mouse IRF2BP1 are identical in amino acid sequence.

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