Human IRF5 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4508

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IRF5 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human IRF5 Ala214-Thr395 Accession # NP_002191
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.

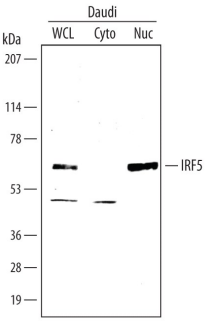
APPLICATIONS

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	2 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Simple Western	20 µg/mL	See Below

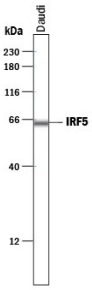
DATA

Western Blot



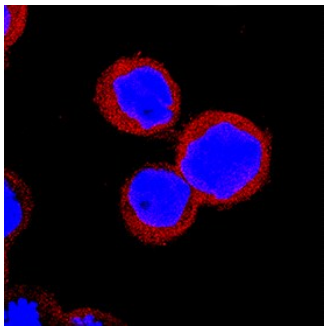
Detection of Human IRF5 by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line. Gels were loaded with 30 µg of whole cell lysate (WCL), 20 µg of cytoplasmic (Cyto), and 10 µg of nuclear extracts (Nuc). PVDF membrane was probed with 2 µg/mL Sheep Anti-Human IRF5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4508) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band for IRF5 was detected at approximately 58 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Simple Western



Detection of Human IRF5 by Simple Western™. Simple Western lane view shows lysates of Daudi human Burkitt's lymphoma cell line, loaded at 0.2 mg/mL. A specific band was detected for IRF5 at approximately 64 kDa (as indicated) using 20 µg/mL of Sheep Anti-Human IRF5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4508) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Immunocytochemistry



IRF5 in THP-1 Human Cell Line. IRF5 was detected in immersion fixed THP-1 human acute monocytic leukemia cell line using Sheep Anti-Human IRF5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4508) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

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.** ● 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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

BACKGROUND

IRF5 is a member of the IRF family of transcription factors, a family characterized by a helix-turn-helix DNA binding domain enriched in tryptophan repeats. IRF family members show diverse cellular regulation of interferon-stimulated gene transcription, viral-mediated gene activation, apoptosis, differentiation, and cellular growth. IRF5, along with IRF7, are the key mediators of TLR signaling. IRF5 forms heterodimers with IRF3 both of which are necessary for interferon gene transcription. IRF5 knock out mice indicate that IRF5 is critical for induction of apoptosis.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 **Europe | Middle East | Africa** TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956