

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IRF2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human IRF2 Val151-Cys349 Accession # P14316
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	0.5 µg/mL	See Below
Simple Western	5 µg/mL	See Below

DATA

Western Blot

Detection of Human IRF2 by Western Blot. Western blot shows nuclear extracts of LNCaP human prostate cancer cell line, U937 human histiocytic lymphoma cell line, and HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human IRF2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4049) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for IRF2 at approximately 54 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western

Detection of Human IRF2 by Simple Western™. Simple Western lane view shows lysates of U937 human histiocytic lymphoma cell line, loaded at 0.2 mg/mL. A specific band was detected for IRF2 at approximately 61 kDa (as indicated) using 5 µg/mL of Goat Anti-Human IRF2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4049) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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. <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

Interferon Regulatory Factor 2 (IRF2) belong to the interferon regulatory transcription factor family. IRF2 functions as a regulator of type I interferons influencing cellular proliferation and immune response through transcriptional regulation. IRF2 competitively inhibits IRF1 gene activation, as well as, stimulating transcription on its own. Over-expression of IRF2 in NIH3T3 cells leads to transformation, whereas, loss of IRF2 expression in knock out mice leads to a variety of abnormalities including loss of NK cells due to increased apoptosis.