Human IRAK1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4048

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IRAK1 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human (rh) IRAK2 and rhIRAK4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human IRAK1 Met1-Ser693 Accession # AAH54000
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.

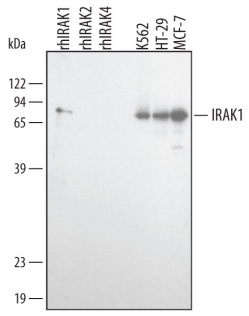
APPLICATIONS

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
Simple Western	20 µg/mL	Lysates of K562 human chronic myelogenous leukemia cell line and HEK293T human embryonic kidney cell line

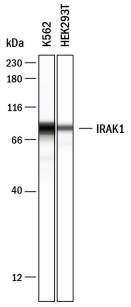
DATA

Western Blot



Detection of Human IRAK1 by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line, HT-29 human colon adenocarcinoma cell line, and MCF-7 human breast cancer cell line. PVDF membrane was probed with 1 µg/mL Goat Anti-Human IRAK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4048) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). For additional reference, recombinant human IRAK1, IRAK2, and IRAK4 (10 ng/lane) were included. A specific band for IRAK1 was detected at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human IRAK1 by Simple Western™. Simple Western lane view shows lysates of K562 human chronic myelogenous leukemia cell line and HEK293T human embryonic kidney cell line, loaded at 0.2 mg/mL. A specific band was detected for IRAK1 at approximately 83 kDa (as indicated) using 20 µg/mL of Goat Anti-Human IRAK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4048) . 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.** • 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

IL-1 receptor-associated kinases (IRAKs) are serine/threonine kinases that regulate signaling from Toll-like receptor (TLR) and IL-1 receptor family members. Four human IRAKs have been identified: IRAK1, IRAK2, IRAK-M, and IRAK4. All IRAKs are multidomain proteins, containing a conserved N-terminal death domain as well as a central kinase domain that is only active in IRAK1 and IRAK4.

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