Human/Mouse/Rat Keap1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF3024

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat Keap1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Keap1 Ala90-Ile250 Accession # Q14145
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.

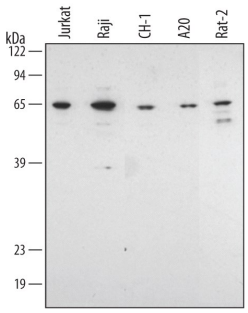
APPLICATIONS

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

DATA

Western Blot



Detection of Human/Mouse/Rat Keap1 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, Raji human Burkitt's lymphoma cell line, CH-1 mouse B cell lymphoma cell line, A20 mouse B cell lymphoma cell line, and Rat-2 rat embryonic fibroblast cell line . PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat Keap1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3024) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for Keap1 at approximately 66 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 2.

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

Kelch-like ECH-associated protein 1 (Keap1) is a 624 amino acid, 69 kDa protein which interacts with the transcription factor NF-E2-related factor 2 (Nrf2). Keap1 represses Nrf2 function by sequestering Nrf2 in the cytoplasm. Keap1 contains an N-terminal BTB domain and six C-terminal KELCH domains (aa 327-611) that interact with Nrf2. Dissociation of the two proteins in response to redox-sensitive cell stress is followed by the translocation of Nrf2 to the nucleus and transcription of detoxifying/oxidative stress enzyme genes.

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