Human/Mouse/Rat Keap1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 333116

Catalog Number: MAB3024

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat Keap1 in Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 333116
Purification	Protein A or G purified from hybridoma culture supernatant
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.

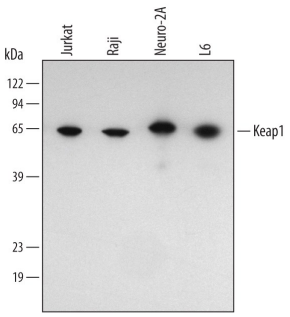
APPLICATIONS

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
Simple Western	20 µg/mL	See Below

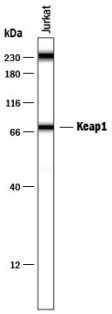
DATA

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, Neuro-2A mouse neuroblastoma cell line, and L6 rat myoblast cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat Keap1 Monoclonal Antibody (Catalog # MAB3024) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Keap1 at approximately 66 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 4.

Simple Western



Detection of Human Keap1 by Simple Western™. Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line, loaded at 0.2 mg/mL. A specific band was detected for Keap1 at approximately 75 kDa (as indicated) using 20 µg/mL of Mouse Anti-Human/Mouse/Rat Keap1 Monoclonal Antibody (Catalog # MAB3024). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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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