

Human/Mouse/Rat Chk1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1630

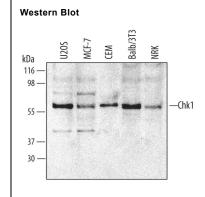
DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects human, mouse, and rat Chk1 in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>E. coli</i> -derived recombinant human Chk1 Tyr157-Thr476 Accession # O14757	
Formulation	Lyophilized from 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
Immunoprecipitation	2 μg/500 μg cell lysate U2OS human osteosarcoma cell line and Balb/3T3 mouse embryonic fibroblast cell line , see	
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DATA



Detection of Human, Mouse, and Rat Chk1 by Western Blot. Western blot shows lysates of NRK rat normal kidney cell line, U2OS human osteosarcoma cell line, MCF-7 human breast cancer cell line, CEM human Tlymphoblastoid cell line, and Balb/3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat Chk1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1630) followed by HRPconjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for Chk1 at approximately 57 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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

The Chk1 checkpoint kinase is an integral member of a signaling cascade that controls cell cycle progression. In response to genotoxic stress, Chk1 is phosphorylated by ATM or ATM-related kinases. In turn, Chk1 phosphorylates downstream effectors, such as p53 or the Cdc25 phosphatases to halt cell cycle progression and allow time for repair of incurred damage.

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