Mouse/Rat Chk2 Antibody

Monoclonal Rat IgG_{2B} Clone # 235316

Catalog Number: MAB2285

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects endogenous mouse and rat Chk2 in Western blots.
Source	Monoclonal Rat IgG_{2B} Clone # 235316
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse Chk2 Met1-Ala234 Accession # Q9Z265
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

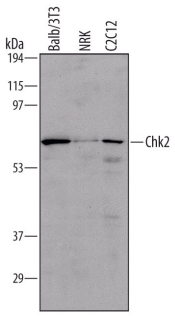
APPLICATIONS

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 Mouse/Rat Chk2 by Western Blot. Western blot shows lysates of NRK rat normal kidney cell line, Balb/3T3 mouse embryonic fibroblast cell line, and C2C12 mouse myoblast cell line. PVDF membrane was probed with 1 µg/mL of Mouse/Rat Chk2 Monoclonal Antibody (Catalog # MAB2285) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Chk2 at approximately 65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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.
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 from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

BACKGROUND

Checkpoint kinase 2 (Chk2) is a critical protein kinase involved in the cellular response to DNA damage. Chk2 is a target of the ATM protein kinase, and can phoshorylate multiple proteins, including Cdc25A and p53 to activate the G_1/S cell cycle checkpoint. Patients with Li-Fraumeni syndrome, a cancer-prone familial disorder, may have a mutation in the *chk2* or *p53* genes, which suggests that Chk2 also functions as a tumor suppressor.