

# **Mouse Chk2 Antibody**

Monoclonal Rat IgG<sub>2A</sub> Clone # 235303 Catalog Number: MAB22851

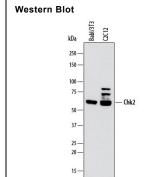
DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects endogenous mouse Chk2 in Western blots.	
Source	Monoclonal Rat IgG <sub>2A</sub> Clone # 235303	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant mouse Chk2 Met1-Ala234 Accession # Q9Z265	
Formulation	n 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	2 μg/mL	See Below
Immunohistochemistry	8-25 μg/mL	Perfusion fixed frozen sections of mouse liver and lung

#### DATA



Detection of Mouse Chk2 by Western Blot. Western blot shows lysates of Balb/3T3 mouse embryonic fibroblast cell line and C2C12 mouse myoblast cell line. PVDF membrane was probed with 2 µg/mL of Rat Anti-Mouse Chk2 Monoclonal Antibody (Catalog # MAB22851) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Chk2 at approximately 61 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.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 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

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.

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