

DESCRIPTION

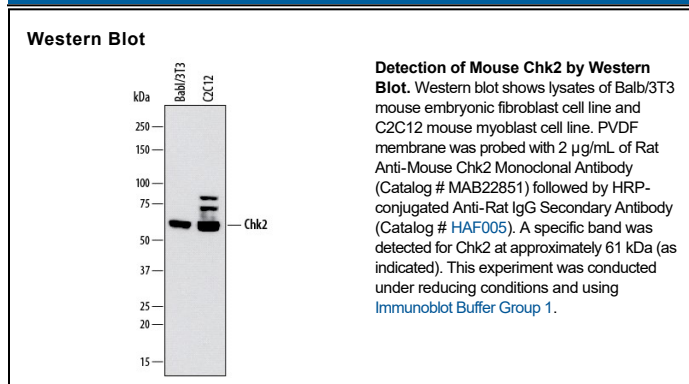
Species Reactivity	Mouse
Specificity	Detects endogenous mouse Chk2 in Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 235303
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Chk2 Met1-Ala234 Accession # Q9Z265
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *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



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. <ul style="list-style-type: none"> 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 phosphorylate multiple proteins, including Cdc25A and p53, to activate the G₁/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.