

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
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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