

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Chk1 when phosphorylated at S317 in Western blots. Does not recognize Chk1 when unphosphorylated at S317.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human Chk1 S317 site
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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

The Chk1 checkpoint kinase is an integral member of a signaling cascade that controls cell cycle progression. In response to genotoxic or replicative stress, Chk1 is phosphorylated by ATM or ATM-related kinases (ATR) at S317. 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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