

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Chk2 when phosphorylated at T68 in direct ELISAs and Western blots.
Source	Monoclonal Rabbit IgG Clone # 1238H
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Phospho-Chk2 (T68) Accession # O96017
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunocytochemistry	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

Serine/threonine-protein kinase Chk2 (CHEK2) is a 65 kDa member of Serine/threonine-protein kinase family of proteins. Chk2 regulates cell cycle checkpoint arrest through phosphorylation of CDC25A, CDC25B and CDC25C. Inhibition of CDC25 phosphatase activity leads to increased inhibitory tyrosine phosphorylation of CDK-cyclin complexes and blocks cell cycle progression. Chk2 is required for checkpoint-mediated cell cycle arrest, activation of DNA repair and apoptosis in response to the presence of DNA double-strand breaks. Existence of multiple splice variants of Chk2 is predicted. Human Chk2 shares 86% aa sequence identity with mouse Chk2.

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