

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PLK3 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PLK3 Pro320-Ala520 Accession # Q9H4B4.2
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.

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

Polo-like kinases are critical regulators of cell cycle progression, cytokinesis, mitosis, and the genotoxic stress response. Four distinct members have been identified to date in mammalian cells: PLK1, PLK2, PLK3, and PLK4. PLK3 (polo-like kinase 3) plays an important role in cell cycle regulation by modulating microtubule dynamics and centrosomal function. Although protein levels are unchanged throughout the cell cycle, kinase activity peaks during late S and G2 phases. Many key cell cycle regulators are phosphorylated by PLK3 including p53 on Ser20, Cdc25C on Ser216, and the major subunit of DNA polymerase δ , p125 on Ser60.

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