

Human Serine/Threonine-Protein Kinase PLK3 (PLK3) ELISA Kit | PLK3 elisa kit

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CATALOG #
AAA331385

REACTIVITY
Human

PRODUCT SYNONYMS

Serine/Threonine-Protein Kinase PLK3 (PLK3); Human Serine/Threonine-Protein Kinase PLK3 (PLK3) ELISA Kit; PLK3; RP11-269F19.6; CNK; FNK; PRK; FGF-inducible kinase; cytokine-inducible kinase; polo-like kinase 3; proliferation-related kinase; PLK3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Serine/threonine-protein kinase PLK3 (PLK3) ELISA Kit has high sensitivity and excellent specificity for detection of Human PLK3. No significant cross-reactivity or interference between Human PLK3 and analogues was observed.
Sequence Length	646
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Serine/threonine-protein kinase PLK3 (PLK3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PLK3 elisa kit	Description: This Human Serine/threonine-protein kinase PLK3 (PLK3) ELISA Kit employs a two-site sandwich ELISA to quantitate PLK3 in samples. An antibody specific for PLK3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PLK3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLK3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PLK3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: CNK is a member of the 'polo' family of serine/threonine kinases. Members of this family have been implicated in cell division and are important in regulating the onset of mitosis and M-phase progression. The predicted 607-amino acid protein has an N-terminal catalytic domain, including an ATP-binding site, a central putative nuclear targeting signal, and a presumed C-terminal regulatory domain. The CNK protein shows homology with several other members of the 'polo' family; it is 91% identical to mouse Fnk, 50% identical to human PLK, 48% identical to Drosophila polo, and 38% identical to S. cerevisiae Cdc5. Northern blot analysis detected expression of a 2.5-kb CNK transcript in a limited number of human tissues, with placenta containing a moderate level and ovary, lung, and peripheral blood leukocytes containing low levels.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	41872374
NCBI GeneID	1263
NCBI Accession #	NP_004064.2
NCBI GenBank Nucleotide #	NP_004064.2
UniProt Accession #	Q9H4B4
NCBI Official Full Name	serine/threonine-protein kinase PLK3
NCBI Official Synonym Full Names	polo like kinase 3
NCBI Official Symbol	PLK3
NCBI Official Synonym Symbols	CNK; FNK; PRK; PLK-3
NCBI Protein Information	serine/threonine-protein kinase PLK3
UniProt Protein Name	Serine/threonine-protein kinase PLK3
UniProt Gene Name	PLK3
UniProt Synonym Gene Names	CNK; FNK; PRK; PLK-3
UniProt Entry Name	PLK3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.