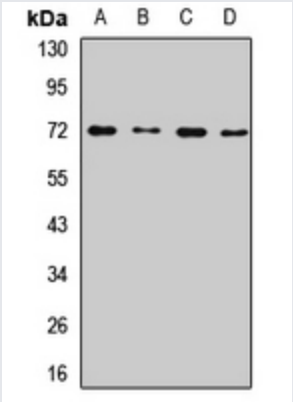
PLK3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PLK3, Polyclonal Antibody
Full Product Name	Rabbit anti-PLK3 Antibody
Product Gene Name	anti-PLK3 antibody
Product Synonym Names	CNK; FNK; PRK; Serine/threonine-protein kinase PLK3; Cytokine-inducible serine/threonine-protein kinase; FGF-inducible kinase; Polo-like kinase 3; PLK-3; Proliferation-related kinase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	71,629 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (45266036..45271667). Location: 1p34.1
OMIM	602913
3D Structure	ModBase 3D Structure for Q9H4B4
Immunogen	Recombinant full length protein of human PLK3
Product Categories/Family for anti-PLK3 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PLK3 antibody	Western Blot (WB)
Application Notes for anti-PLK3 antibody	WB: 1:500-1:2000
Related Product Information for anti-PLK3 antibody	MBS4508392 is an antibody targeting PLK3. Also known as Rabbit anti-PLK3 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-PLK3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PLK3 antibody
Western blot analysis of PLK3 expression in A549 (A), SWOV3 (B), mouse liver (C), rat liver (D) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLK3. It may not necessarily be applicable to this product.

NCBI GI #	41872374
NCBI GeneID	1263
NCBI Accession #	NP_004064.2
UniProt Primary Accession #	Q9H4B4
UniProt Secondary Accession #	Q60806; Q9R011
UniProt Related Accession #	Q9H4B4
GenBank Nucleotide #	NM_004073.2
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
UniProt Protein Name	Serine/threonine-protein kinase PLK3
UniProt Synonym Protein Names	Cytokine-inducible serine/threonine-protein kinase; FGF-inducible kinase; Polo-like kinase 3; PLK-3; Proliferation-related kinase
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	PLK3
UniProt Synonym Gene Names	CNK; FNK; PRK; PLK-3
UniProt Entry Name	PLK3_HUMAN
NCBI Protein Information	serine/threonine-protein kinase PLK3; PLK-3; FGF-inducible kinase; cytokine-inducible kinase; proliferation-related kinase; cytokine-inducible serine/threonine-protein kinase
NCBI Summary for PLK3	Cytokine-inducible kinase is a putative serine/threonine kinase. CNK contains both a catalytic domain and a putative regulatory domain. It may play a role in regulation of cell cycle progression and tumorigenesis. [provided by RefSeq, Jul 2008]

UniProt Comments for PLK3	PLK3: a kinase of the PLK family. Phosphorylated and activated following DNA damage or mitotic spindle disruption. Interacts with Chk2 and the interaction is enhanced upon DNA damage. Apparent substrates include Chk2 and p53. Plays an important role in regulating microtubule dynamics and centrosomal function. Deregulated expression of Plk3 results in cell cycle arrest and apoptosis. Protein type: Nucleolus; EC 2.7.11.21; Protein kinase, Ser/Thr (non-receptor); Protein kinase, Other; Kinase, protein; Other group; PLK family Chromosomal Location of Human Ortholog: 1p34.1 Cellular Component: centrosome; Golgi stack; cell soma; cytoplasm; dendrite; nucleolus; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; p53 binding; ATP binding Biological Process: apoptosis; mitotic cell cycle checkpoint; negative regulation of transcription from RNA polymerase II promoter; endomitotic cell cycle; response to osmotic stress; protein amino acid phosphorylation; regulation of cytokinesis; cytoplasmic microtubule organization and biogenesis; response to reactive oxygen species; response to radiation; protein kinase B signaling cascade; G2/M transition of mitotic cell cycle; regulation of cell division; response to DNA damage stimulus; negative regulation of apoptosis; G1/S transition of mitotic cell cycle
Research Articles on PLK3	**1.** have identified and validated as in vitro PLK2 and PLK3 substrates HSP90, GRP-94, beta-tubulin, calumenin, and 14-3-3 epsilon
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