

Fnk Rabbit pAb

CatalogNo: YT1734

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 70kD (Observed)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-1:2000

ELISA 1:10000

Not yet tested in other applications.

| Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human PLK3. AA range: 231-280

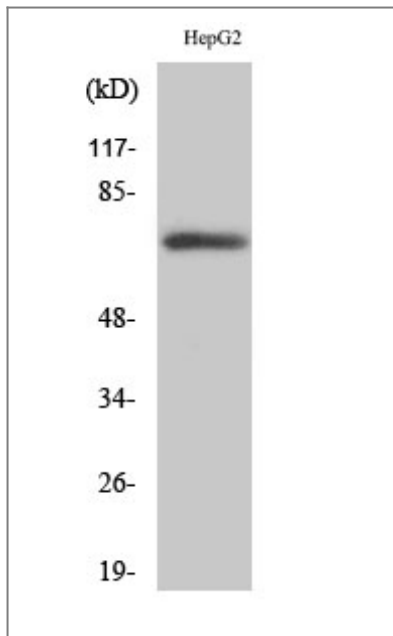
Specificity

Fnk Polyclonal Antibody detects endogenous levels of Fnk protein.

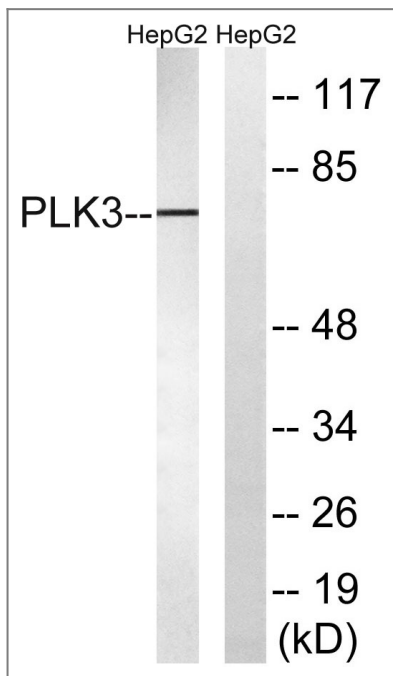
| Target Information

Gene name	PLK3		
Protein Name	Serine/threonine-protein kinase PLK3		
	Organism	Gene ID	UniProt ID
	Human	1263 ;	Q9H4B4 ;
	Mouse		Q60806 ;
	Rat	58936 ;	Q9R011 ;
Cellular Localization	Cytoplasm. Nucleus. Nucleus, nucleolus. Golgi apparatus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Translocates to the nucleus upon cisplatin treatment. Localizes to the Golgi apparatus during interphase. According to a report, PLK3 localizes only in the nucleolus and not in the centrosome, or in any other location in the cytoplasm (PubMed:17264206). The discrepancies in results may be explained by the PLK3 antibody specificity, by cell line-specific expression or post-translational modifications. .		
Tissue specificity	Transcripts are highly detected in placenta, lung, followed by skeletal muscle, heart, pancreas, ovaries and kidney and weakly detected in liver and brain. May have a short half-live. In cells of hematopoietic origin, strongly and exclusively detected in terminally differentiated macrophages. Transcript expression appears to be down-regulated in primary lung tumor.		
Function	Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,Function:Serine/threonine protein kinase involved in regulating M phase functions during the cell cycle. May also be part of the signaling network controlling cellular adhesion. In vitro, is able to phosphorylate CDC25C and casein.,induction:Cytokine and cellular adhesion trigger FNK induction.,PTM:Phosphorylated as cells enter mitosis and dephosphorylated as cells exit mitosis.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. CDC5/Polo subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 2 POLO box domains.,subunit:Binds to the calcium/integrin-binding protein (CIB). This interaction probably occurs via the POLO-box domain.,tissue specificity:Transcripts are highly detected in placenta, lung, followed by skeletal muscle, heart, pancreas, ovaries and kidney and weakly detected in liver and brain. May have a short half-live. In cells of hematopoietic origin, strongly and exclusively detected in terminally differentiated macrophages. Transcript expression appears to be down-regulated in primary lung tumor.,		

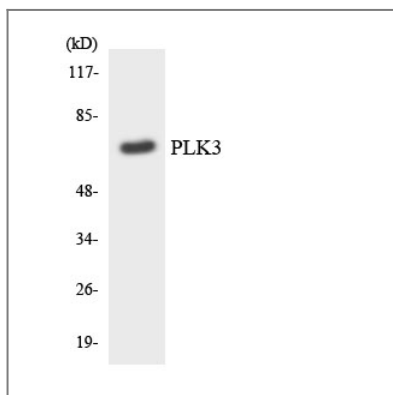
| Validation Data



Western Blot analysis of various cells using Fnk Polyclonal Antibody



Western blot analysis of lysates from HepG2 cells, using PLK3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from RAW264.7 cells using PLK3 antibody.

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Fnk Rabbit pAb

For Research Use Only. Not for Use in Diagnostic Procedures.

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