

Mouse anti-Human PLK1 Monoclonal Antibody | anti-PLK1 antibody

PLK1 (STPK13, Polo-like Kinase 1, Serine/Threonine-protein Kinase 13, Serine/Threonine-protein Kinase PLK1, PLK, PLK-1) (HRP)

CATALOG # AAA25503	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

PLK1; Monoclonal Antibody; PLK1 (STPK13; Polo-like Kinase 1; Serine/Threonine-protein Kinase 13; Serine/Threonine-protein Kinase PLK1; PLK; PLK-1) (HRP); anti-PLK1 antibody

PRODUCT SPECIFICATIONS

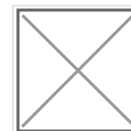
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2G12
Specificity	Recognizes human PLK1.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Applicable Applications for anti-PLK1 antibody	ELISA, IP (Immunoprecipitation), WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	Full length recombinant corresponding to aa1-604 from human PLK1 (AAH02369a) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MSAAVTAGKLARAPADPGKAGVPGVAAPGAPAAAPPAKEIPEVLVDPRRRRYVRGRFLGKGGFAKCFEISDADTKEVFAGKIVPKSLLKPHQREKMS
Conjugate	HRP
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C.

IMAGES



Application Data

Detection limit for recombinant GST tagged PLK1 is ~1ng/ml as a capture antibody.



IP (Immunoprecipitation)

Immunoprecipitation of PLK1 transfected lysate using anti-PLK1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PLK1 rabbit polyclonal antibody.

**IF (Immunofluorescence)**

Immunofluorescence of monoclonal antibody to PLK1 on HeLa cell. [antibody concentration 10ug/ml]

**WB (Western Blot)**

Western Blot analysis of PLK1 expression in transfected 293T cell line by PLK1 monoclonal antibody. Lane 1: PLK1 transfected lysate (68.3kD). Lane 2: Non-transfected lysate.

**WB (Western Blot)**

Western blot analysis of PLK1 in extracts from 293T, HeLa and A549 cell using PLK1 monoclonal antibody.

**WB (Western Blot)**

PLK1 monoclonal antibody Western Blot analysis of PLK1 expression in Hela NE.

ADDITIONAL INFORMATION

Related Product Information for anti-PLK1 antibody

Polo related kinase (PLK), a serine/threonine kinase is strongly correlated with the mitotic activity of cells. PLK is present in all tissues during mouse embryonic development, where as in adults expression is limited to thymus and ovaries. It has been observed that tumors of various origin (lung, colon, stomach, smooth muscle, and esophagus as well as non-Hodgkin lymphomas) express high levels of PLK transcripts with absent of transcripts in normal surrounding tissues. Only normal colon and placenta, which are known to be mitotically active express PLK. PLK expression is restricted to proliferating cells. In mammalian cells, three PLKs (PLK1, PLK2/Snk, PLK3/Fnk) have been identified. PLK1 is the most studied isoform. The known substrates of PLK1 include several proteins involved in mitosis such as Cdc25C, APC, and cyclin B. PLK1 promotes mitosis through the phosphorylation and activation of Cdc25C, which regulates the tyrosine dephosphorylation of CDKs.

Product Categories/Family for anti-PLK1 antibody

[Antibodies](#); [Protein Kinases](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	33876611
NCBI GeneID	5347
Molecular Weight	68,255 Da
NCBI Official Full Name	Homo sapiens polo-like kinase 1 (Drosophila), mRNA
NCBI Official Synonym Full Names	polo like kinase 1
NCBI Official Symbol	PLK1
NCBI Official Synonym Symbols	PLK; STPK13
NCBI Protein Information	serine/threonine-protein kinase PLK1

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/plk1-antibody-clone-2g12-immunoprecipitation-western-blot-elisa/25503>