Immunotag™ PLK4 Antibody

Antibody Specification

Catalog No.	ITA7995
Product Description	Immunotag™ PLK4 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PLK4
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:1000-3000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human PLK4
Specificity	PLK4 Antibody detects endogenous levels of total PLK4
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	PLK4
Accession No.	O00444
Alternate Names	PLK 4; PLK-4; PLK4; PLK4_HUMAN; Polo like Kinase 4; Polo-like kinase 4; Protein serine/threonine kinase; SAK; Serine/Threonine Kinase 18; Serine/threonine kinase; Serine/threonine protein kinase 18; Serine/threonine protein kinase PLK4; Serine/threonine protein kinase Sak; Serine/threonine-protein kinase 18; Serine/threonine-protein kinase PLK4; Serine/threonine-protein kinase SAK; Snk Akin Kinase; STK 18; STK18;

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Description	Serine/threonine-protein kinase that plays a central role in centriole duplication. Able to trigger procentriole formation on the surface of the parental centriole cylinder, leading to the recruitment of centriole biogenesis proteins such as SASS6, CENPJ/CPAP, CCP110, CEP135 and gamma-tubulin. When overexpressed, it is able to induce centrosome amplification through the simultaneous generation of multiple procentrioles adjoining each parental centriole during S phase. Phosphorylates 'Ser-151' of FBXW5 during the G1/S transition, leading to inhibit FBXW5 ability to ubiquitinate SASS6. Its central role in centriole replication suggests a possible role in tumorigenesis, centrosome aberrations being frequently observed in tumors. Also involved in deuterosome-mediated centriole amplification in multiciliated that can generate more than 100 centrioles. Also involved in trophoblast differentiation by phosphorylating HAND1, leading to disrupt the interaction between HAND1 and MDFIC and activate HAND1. Phosphorylates CDC25C and CHEK2. Required for the recruitment of STIL to the centriole and for STIL-mediated centriole amplification (PubMed:22020124).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	95 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.