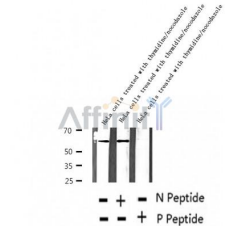
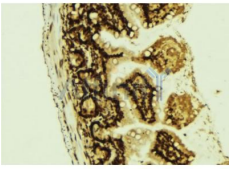
Phospho-PLK1 (Thr210) Ab

Cat.#: AF2385	Concn.: 1mg/ml	Mol.Wt.: 62kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

Application:	WB 1:500-1:2000, IHC 1:50-1:200
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-PLK1 (Thr210) Ab detects endogenous levels of PLK1.
Immunogen:	A synthesized peptide derived from human PLK1 around the phosphorylation site of Thr210.
Uniprot:	P53350
Subcellular Location:	Nucleus. Chromosome > centromere > kinetochore. Cytoplasm > cytoskeleton > centrosome. During early stages of mitosis, the phosphorylated form is detected on centrosomes and kinetochores. Localizes to the outer kinetochore. Presence of SGOL1 and interaction with the phosphorylated form of BUB1 is required for the kinetochore localization.
Tissue Specificity:	Placenta and colon.
Similarity:	The POLO box domains act as phosphopeptide-binding module that recognize and bind serine-[phosphothreonine/phosphoserine]-(proline/X) motifs. PLK1 recognizes and binds docking proteins that are already phosphorylated on these motifs, and then phosphorylates them. PLK1 can also create its own docking sites by mediating phosphorylation of serine-[phosphothreonine/phosphoserine]-(proline/X) motifs subsequently recognized by the POLO box domains.Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. CDC5/Polo subfamily.
Storage Condition and Buffer:	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.



Western blot analysis of extracts of HeLa cells treated with thymidine/nocodazole , using Phospho-PLK1 (Thr210) Ab.



AF2385 at 1/100 staining Mouse colon tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.