

AP07516PU-N**Polyclonal Antibody to Aurora kinase A (C-term) - Aff - Purified**

Alternate names:	AIK1, ARK1, AURA, AURKA, AURORA2, Aurora/IPL1-related kinase 1, BTAK, Breast tumor-amplified kinase, STK15, STK6, Serine/threonine kinase 15, Serine/threonine-protein kinase 6
Quantity:	50 µg
Concentration:	0.5 mg/ml
Background:	ARK1, an Aurora/IPL1-like protein kinase, functions in centrosome separation, duplication, and maturation and in bipolar spindle assembly and stability. The protein has been shown to localize to centrosomes in S phase as soon as centrioles have been duplicated, and to be degraded in early G1. ARK1 phosphorylation is induced by okadaic acid treatment in vivo. Activated ARK1 has been shown to phosphorylate the spindle apparatus-associated protein, TPX2, and it is believed to be targeted to the spindle apparatus by this protein. At least three alternative splice forms have been reported; however, the alternative splice sites are located in the 5'-untranslated region and appear to have no effect on protein translation. ARK1 has been identified as an oncogene that is overexpressed in several types of solid tumors and tumor cell lines, including those from breast and colon. Additionally, overexpression of ARK1 has been implicated in mechanisms leading to mitotic spindle aberrations, aneuploidy, and genomic instability.
Uniprot ID:	Q14965
NCBI:	NP_003591.2
GeneID:	6790
Host:	Goat
Immunogen:	Synthetic peptide from the C-terminus of human AURKA / Aurora-A (NP_003591.2) AA Sequence: C-QNKESASKQS
Format:	State: Liquid purified Ig fraction Purification: Immunoaffinity Chromatography Buffer System: Tris-buffered saline, pH 7.3, 0.5% BSA, 0.02% sodium azide
Applications:	ELISA. Immunohistochemistry on Paraffin Sections: 10 µg/ml. Immunoprecipitation. Western Blot: 0.5 - 2 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Recognizes C-terminus of Human AURKA / Aurora-A. Reported variants represent identical protein: NP_003591.2; NP_940835.1; NP_940836.1; NP_940837.1; NP_940838.1; NP_940839.1
Species Reactivity:	Tested: Human, Gorilla, Gibbon, Marmoset Expected from sequence similarity: Sheep, Bovine, Elephant, Panda, Helicobacter

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures: Thymus: Formalin-Fixed Paraffin-Embedded (FFPE)

