

## Polyclonal Antibody to Aurora kinase A pThr288 - Aff - Purified

<b>Alternate names:</b>	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
<b>Catalog No.:</b>	AP07481PU-N
<b>Quantity:</b>	50 µl
<b>Concentration:</b>	0.21 mg/ml
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">O14965</a>
<b>NCBI:</b>	<a href="#">NP_003591.2</a>
<b>GeneID:</b>	<a href="#">6790</a>
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Immunogen:</b>	KLH conjugated Synthetic peptide <b>Remarks:</b> Antigen Modification: pThr288
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Immunoaffinity Chromatography. <b>Buffer System:</b> Phosphate-buffered solution, pH 7.2 containing 0.09% Sodium Azide and 50% Glycerol
<b>Applications:</b>	Western Blot. Immunohistochemistry on Paraffin Sections: 1/50. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts to Aurora-Related Kinase 1 (ARK1/AURKA). <b>Species:</b> Human. Other species not tested.

**Storage:**

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

**Pictures:**

AP07481PU-N Aurora kinase A antibody staining of Formalin-Fixed Paraffin-Embedded Human Testis at 1/50 followed by biotinylated Goat anti-Rabbit IgG secondary antibody, Alkaline Phosphatase-Streptavidin and Chromogen.

