



## Aurora Kinase A Antibody

**E2200525****Size** 100ug**Cat code** E2200525**Species Cross-reactivity** H,Mk**Key Application** WB: 1/500-1/2000; ELISA: 1/2000-1/5000; IHC: 1/50-1/200**Host** Mouse**Antibody type** Monoclonal antibody**Purified method** null**Isotype** IgG1**Molecular Weight** 46kDa

**Sensitivity** This antibody detects endogenous levels of AURKA(N-term) and does not cross-react with related proteins.

**Immunogen** Purified recombinant human AURKA(N-term) protein fragments expressed in E.coli.

**UniProt Number** O14965

**GeneBank ID** NM\_198437

**Subcellular location** Cytoplasm

**Formulation** ascites

**Altername** aurora 2,IPL1-related kinase,aurora-related kinase 1,aurora/IPL1-like kinase,serine/threonine kinase 6,aurora/IPL1-related kinase 1 breast tumor-amplified kinase,breast-tumor-amplified kinase serine/threonine-protein kinase 6 serine/threonine protein kinase 15 serine/threonine-protein kinase 15 serine/threonine-protein kinase aurora-A protein phosphatase 1, regulatory subunit 47

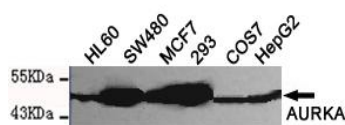
**Gene\_symbol** AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; AURORA2; PPP1R47

**UniPort summary Function** Mitotic serine/threonine kinases that contributes to the regulation of cell cycle progression. Associates with the centrosome and the spindle microtubules during mitosis and plays a critical role in various mitotic events including the establishment of mitotic spindle, centrosome duplication, centrosome separation as well as maturation, chromosomal alignment, spindle assembly checkpoint, and cytokinesis. Required for initial activation of CDK1 at centrosomes. Phosphorylates numerous target proteins, including ARHGEF2, BORA, BRCA1, CDC25B, DLGP5, HDAC6, KIF2A, LATS2, NDEL1, PARD3, PPP1R2, PLK1, RASSF1, TACC3, p53/TP53 and TPX2. Regulates KIF2A tubulin depolymerase activity. Required for normal axon formation. Plays a role in microtubule remodeling during neurite extension. Important for microtubule formation and/or stabilization. Also acts as a key regulatory component of the p53/TP53 pathway, and particularly the checkpoint-response

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pathways critical for oncogenic transformation of cells, by phosphorylating and stabilizing p53/TP53. Phosphorylates its own inhibitors, the protein phosphatase type 1 (PP1) isoforms, to inhibit their activity. Necessary for proper cilia disassembly prior to mitosis.

**Entrez summary** The protein encoded by this gene is a cell cycle-regulated kinase that appears to be involved in microtubule formation and/or stabilization at the spindle pole during chromosome segregation. The encoded protein is found at the centrosome in interphase cells and at the spindle poles in mitosis. This gene may play a role in tumor development and progression. A processed pseudogene of this gene has been found on chromosome 1, and an unprocessed pseudogene has been found on chromosome 10. Multiple transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]



Western blot detection of AURKA in HL60, SW480, MCF7, 293, COS7 & HepG2 cell lysates and using AURKA antibody (1:200 diluted). Predicted band size: 46KDa Observed band size:46KDa.