

Aurora A (2E3) Mouse mAb

db6083

Package : 50µL 100µL

Product Name : Aurora A (2E3) Mouse mAb**Cat.No.:** db6083**Synonyms** : AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; AURORA2; PPP1R47**Application** : WB, ICC/IF**Reactivity** : Human, Monkey**Host species** : Mouse**Background**

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 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.

Immunogen

Purified recombinant human Aurora Kinase A protein fragments expressed in E.coli

Gene ID

6790

Swiss Prot

O14965

Synonyms

AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; AURORA2; PPP1R47

Reactivity

Human, Monkey

Application

WB, ICC/IF

Recommended dilution

WB: 1:500-1:1000

ICC/IF: 1:50-1:200

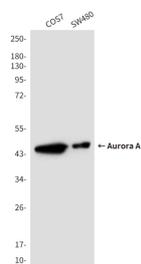
Calculated MW

46 kDa

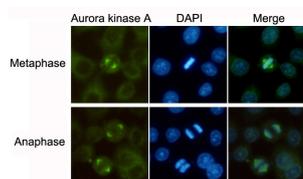
Observed MW

46 kDa

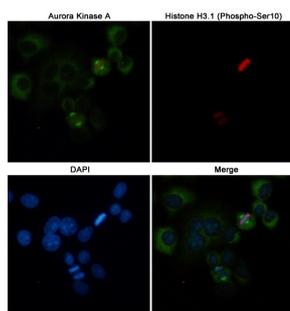
Host species	Mouse
Clonality	Monoclonal
Clonality No.	2E3-C10-C11-G6
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



Western blot analysis of Aurora Kinase A in SW480 and COS7 lysates using Aurora Kinase A antibody.



Immunocytochemistry analysis of Aurora A (2E3) in HeLa using Aurora Kinase A antibody.



Immunofluorescence analysis of Aurora A (2E3) in HeLa cells using Aurora Kinase A antibody (green) and Histone H3.1 (Phospho-Ser1) antibody (red), and DAPI (blue)