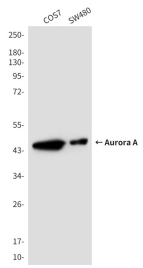
Aurora A (2E3) Mouse mAb

db6083 **Package : 50μL 100μL**

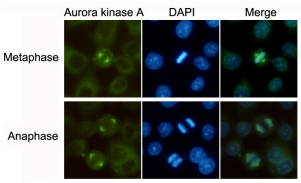
Product Name : Aurora A (2E3) Mouse mAb
Cat.No.: db6083
Synonyms : AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; AURORA2; PPP1R47
Application : WB, ICC/IF
Reactivity : Human, Monkey
Host species : Mouse

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 stabilizating 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

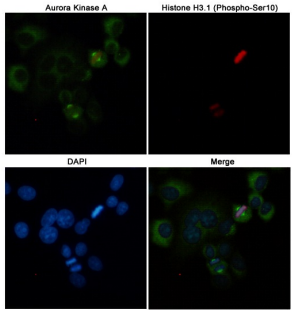
Host species	Mouse
Clonality	Monoclonal
Clonality No.	2E3-C10-C11-G6
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



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)