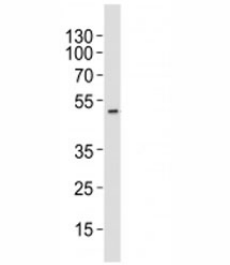
AURKA Antibody [clone 1364CT291.108.155] (F52530)

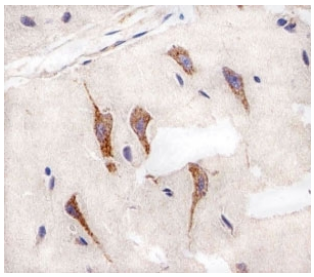
Catalog No.	Formulation	Size
F52530-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52530-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, k
Clone Name	1364CT291.108.155
Purity	Purified
UniProt	O14965
Localization	Cytoplasmic, nuclear
Applications	IHC (Paraffin): 1:25 Western blot: 1:1000
Limitations	This AURKA antibody is available for research use only.



Western blot analysis of lysate from HT-29 cell line using AURKA antibody at 1:1000. Predicted molecular weight ~45 kDa.



Immunohistochemical analysis of paraffin-embedded human brain using AURKA antibody at 1:25 dilution.

Description

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.

Application Notes

Titration of the AURKA antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This AURKA antibody was produced from a mouse immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human AURKA.

Storage

Aliquot the AURKA antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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