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35-1313: Polyclonal Antibody to Aurora A (phospho-Thr288)

Clonality :	Polyclonal
Application :	IHC,WB
Reactivity :	Mouse,Human
Gene :	AURKA
Gene ID :	6790
Uniprot ID :	O14965
Format :	Purified
Alternative Name :	AIK, ARK1, AURA, BTAK, STK6
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around phosphorylation site of threonine 288 (R-T-T(p)-L-M) derived from Human Aurora A.

Description

Contributes to the regulation of cell cycle progression. Required for normal mitosis. Associates with the centrosome and the spindle microtubules during mitosis and functions in centrosome maturation, spindle assembly, maintenance of spindle bipolarity, centrosome separation and mitotic checkpoint control. Phosphorylates numerous target proteins, including ARHGEF2, BRCA1, KIF2A, NDEL1, PARD3, PLK1 and BORA. Regulates KIF2A tubulin depolymerase activity By similarity. Required for normal axon formation. Plays a role in microtubule remodeling during neurite extension. Important for microtubule formation and/or stabilization. Bischoff, J.R. et al. (1998) EMBO J 17, 3052-65. Hauf, S. et al. (2003) J Cell Biol 161, 281-94. Walter, A.O. et al. (2000) Oncogene 19, 4906-16. Zhou, H. et al. (1998) Nat Genet 20, 189-93.

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 48kd, Immunohistochemistry: 1:50~1:100

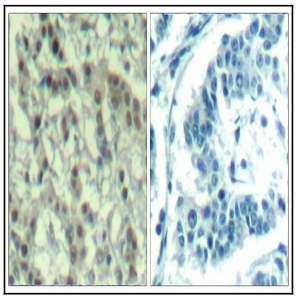

Figure 1: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Aurora A(Phospho-Thr288) Antibody 35-1313 (left) or the same antibody preincubated with blocking peptide(right).

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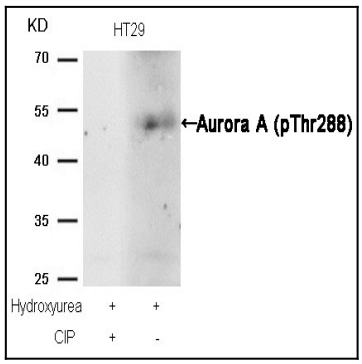

Figure 2: Western blot analysis of extracts from HT29 cells, treated with Hydroxyurea or calf intestinal phosphatase (CIP), using Aurora A (phospho-Thr288) Antibody 35-1313 .