Aurora A(phospho-Thr288) Antibody

Catalog No: #11519

Package Size: #11519-1 50ul #11519-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

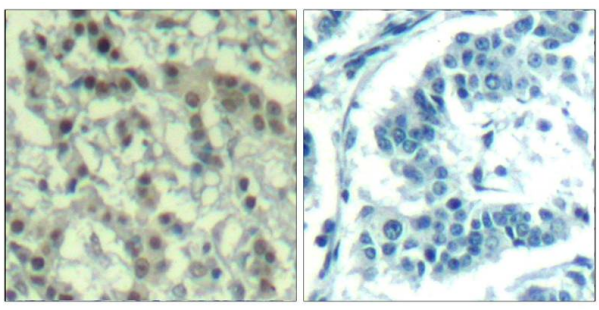
Product Name	Aurora A(phospho-Thr288) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Human;Mouse
Specificity	The antibody detects endogenous level of Aurora A only when phosphorylated at threonine 288.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 288 (R-T-T(p)-L-M) derived from Human Aurora A.
Conjugates	Unconjugated
Target Name	Aurora A
Modification	Phospho
Other Names	AIK; ARK1; AURA; BTAK; STK6
Accession No.	Swiss-Prot: O14965NCBI Protein: NP_003591.2
Concentration	1.0mg/ml
Formulation	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	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

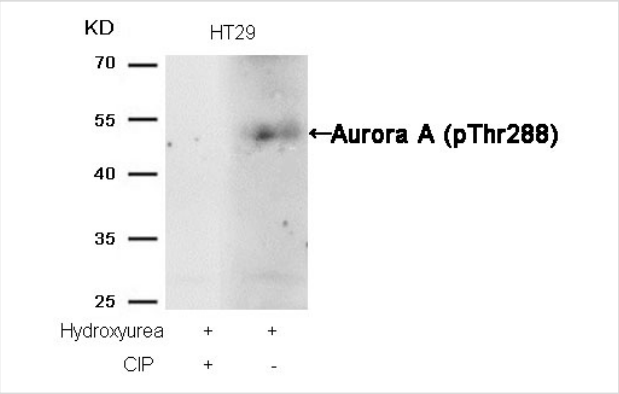
Predicted MW: 48kd

Immunohistochemistry: 1:50~1:100

Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Aurora A(Phospho-Thr288) Antibody #11519(left) or the same antibody preincubated with blocking peptide(right).



Western blot analysis of extracts from HT29 cells, treated with Hydroxyurea or calf intestinal phosphatase (CIP), using Aurora A (phospho-Thr288) Antibody #11519.

Background

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.

Published Papers

el at., PAK1 Is Involved in the Spindle Assembly during the First Meiotic Division in Porcine OocytesInInt J Mol SciOn2023 Jan 6byLei Peng?1,?Yijing He et al..PMID: 36674642, , (2023)

PMID:36674642

Note: This product is for in vitro research use only and is not intended for use in humans or animals.