AurB (Phospho-Thr232) Antibody

Catalog No: #11982

Package Size: #11982-1 50ul #11982-2 100ul

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

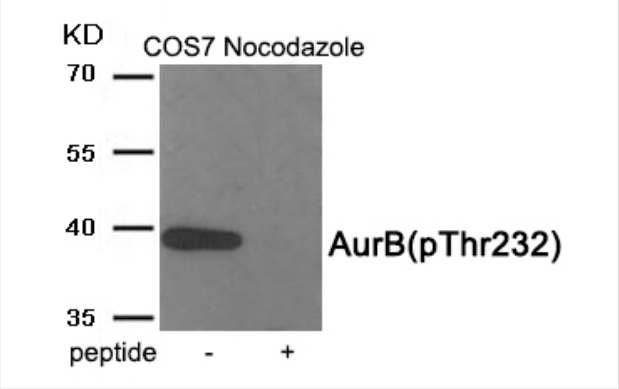
Description

Product Name	AurB (Phospho-Thr232) 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
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of AurB only when phosphorylated at threonine 232.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 232 (R-K-T(p)-M-C) derived from Human AurB.
Target Name	AurB
Modification	Phospho
Other Names	AIK2; AIM-1; ARK2; AURKB; Aurora-B
Accession No.	Swiss-Prot#: Q96GD4; NCBI Gene#: 9212; NCBI Protein#: NP_001243763.1
SDS-PAGE MW	39kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG 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/1 year

Application Details

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from COS7 cells treated with Nocodazole using Phospho-AurB (Thr232) antibody #11982.The lane on the right is treated with the antigen-specific peptide.

Background

Serine/threonine-protein kinase component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Involved in the bipolar attachment of spindle microtubules to kinetochores and is a key regulator for the onset of cytokinesis during mitosis. Required for central/midzone spindle assembly and cleavage furrow formation. AURKB phosphorylates the CPC complex subunits BIRC5/survivin, CDCA8/borealin and INCENP. Phosphorylation of INCENP leads to increased AURKB activity.

Caldas GV, DeLuca KF, DeLuca JG (2013)J Cell Biol 203, 957-69.
Zhang L, et al. (2012)J Biol Chem 287, 34069-77.
Ratushny V, et al. (2012)Oncogene 31, 1217-27 .

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