

AurB (Phospho-Thr232) Antibody

Catalog No: #11982



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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

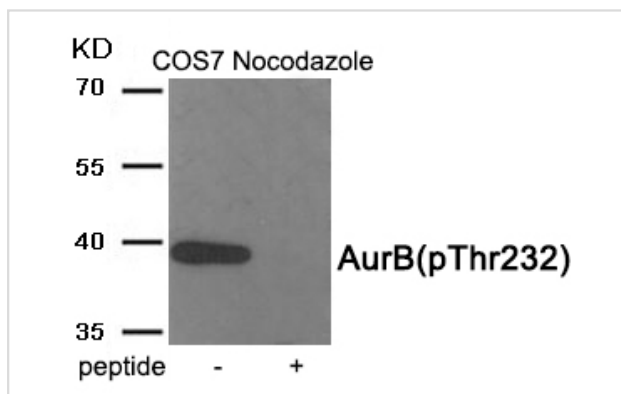
Description

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|-----------------------|--|
| 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 chromatography 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-Thr232 |
| 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 Mg ²⁺ and Ca ²⁺), 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.