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Mouse Monoclonal Antibody to

aurora A N-Terminus

clone 7F12

Order No.: **0233-100/auroraA-7F12**

Size (µg) 100

Lot No.: 0233S

01/160307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	WB	47 kDa	A431	N-terminus	peptide conjugated to hemocyanin

Background and Specificity:

Aurora proteins are members of a serine/threonine kinase family. They play a crucial role in mitosis by regulating chromosome segregation and cytokinesis. There are three forms of Aurora proteins in mammalian cells: AuroraA, B and C. AuroraA (Aurora-2; STK6, ARK1, Aurora/IPL-1 related kinase) associates with centrosomes and microtubules during mitosis. Phosphorylation of a threonine residue within the activation loop of the catalytic domain lead to activation of AuroraA. AuroraB (Aurora-1) is responsible for chromatin modification and histone H3 phosphporylation.

Related Products

mab to aurora A/B
#0245-100/auroraA/B-5F11

Purification: The antibody was purified from serum-free cell culture supernatant by subsequent ultrafiltration and size exclusion chromatography.

Formulation: lyophilized from 1 ml PBS / 0.09 % Na-azide / PEG and Sucrose

Reconstitution: Reconstitute with 1 ml H_2O (15 min, RT).

Stability: For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

Avoid repeated freeze / thaw cycles.

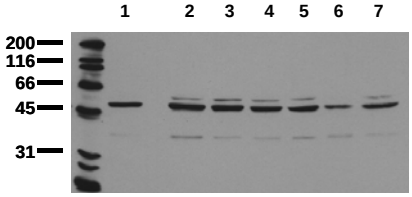
Positive Control: #0831: Cell Lysate from untreated A431 cells.

Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

Immunoprecipitation: ND

Immunocytochemistry: ND

ELISA: ND



Detection of endogenous auroraA

Whole cell extracts of vanadate treated tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab auroraA-7F12 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

lane 1: A431; lane 2: SW480; lane 3: SW620; lane 4: HT29; lane 5: MCF-7; lane 6: MDA-MB231; lane 7: T47D

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.