

Product datasheet for **AM20207PU-N**

Aurora A (AURKA) (N-term) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 7F12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7F12
Applications:	WB
Recommended Dilution:	Immunoblotting (Western Blot): 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking buffer and blot incubation buffer. <i>Included Positive Control:</i> Cell Lysate from untreated A431 cells.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peptide conjugated to hemocyanin Epitope: N-terminus.
Specificity:	Recognizes Aurora-A (N-term).
Formulation:	PBS / 0.09% Sodium Azide / PEG and Sucrose. State: Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Size Exclusion Chromatography.
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -20°C to -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 3 months.
Stability:	Shelf life: one year from despatch.
Gene Name:	aurora kinase A
Database Link:	Entrez Gene 20878 Mouse Entrez Gene 261730 Rat Entrez Gene 6790 Human O14965



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Background:

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. Aurora-A (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 Aurora-A. AuroraB (Aurora-1) is responsible for chromatin modification and histone H3 phosphorylation.

Synonyms:

AURKA, AIK1, ARK1, AURA, BTAK, STK15, STK6, Aurora/IPL1-related kinase 1, AURORA2

Note:

Molecular Weight: 47 kDa

Protocol: **Positive Control: Cell Lysate from untreated A431 cells.**

Formulation: Lyophilized Cell lysate from Serum starved A431 cells.

Stability:

Reconstitute by addition of 200 µl H₂O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Application:

The Positive Control lysate is recommended for Immunoblot applications. 20µl of Positive Control correspond to ca. 20.000 cells.

Use 20µl/lane (mini gel) for HRPO/ECL detection of the target proteins.

Storage:

Aliquote and store frozen.

Avoid repeated freeze/thaw cycles.

Shelf life: one year from despatch.

The Lyophilized cell lysates contain SDS and **are not recommended** for applications with native proteins such as Immunoprecipitation.

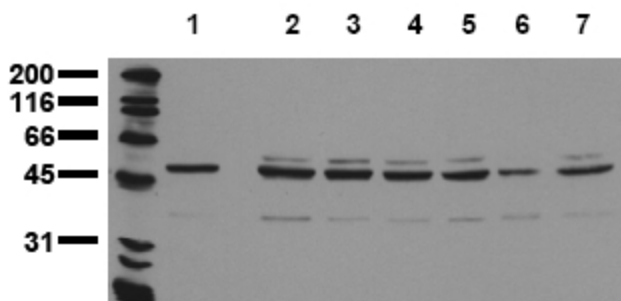
Protein Families:

Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways:

Oocyte meiosis

Product images:



Detection of endogenous Aurora-A: 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 monoclonal antibody AM20207PU-N (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