

## Product datasheet for **AM20208PU-N**

### **Aurora A (AURKA) (C-term) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 5F11]**

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	5F11
Applications:	FC, IF, WB
Recommended Dilution:	<b>Immunoblotting (Western Blot):</b> 0.5 µg/ml for HRPO/ECL detection. <b>Recommended blocking buffer:</b> Casein/Tween 20 based blocking buffer and blot incubation buffer. <b>Included Positive Control:</b> Cell lysate from untreated SW620 cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peptide conjugated to hemocyanin Epitope: C-terminus.
Specificity:	Recognizes Aurora-A/B (C-term).
Formulation:	PBS / 0.09% Sodium Azide / PEG and Sucrose. State: Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with 1 ml H <sub>2</sub> 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:	<a href="#">Entrez Gene 6790 Human O14965</a>



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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:** Aurora kinase A, Aurora A, Aurora B, AURKA, AURKB, AURA, AURB, BTAK, STK6, ARK1, STK15, AIK, AIK2, AIM1, ARK2, STK12

**Note:** **Molecular Weight:** 47 kDa

Protocol: **Positive Control:** Cell lysate from untreated SW620 cells.

**Formulation:** Lyophilized Cell lysate from Serum starved SW620 cells.

**Stability:**

Reconstitute by addition of 200 µl H<sub>2</sub>O. 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.

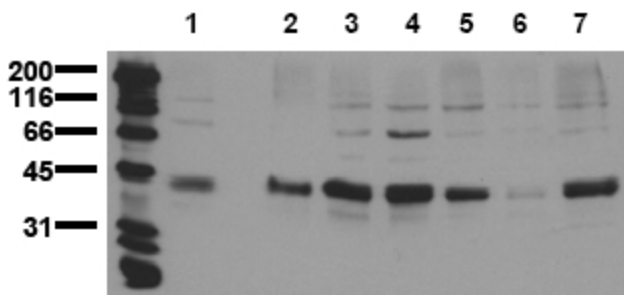
Shelf life: one year from despatch.

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/B: 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 Aurora-A/B antibody AM20208PU-N (5F11) (0.5 ug/ 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