

#3094 Store at -20°C

## Aurora B/AIM1 Antibody



**Cell Signaling**  
TECHNOLOGY®

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<b>Applications:</b> WB, IP, FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 40	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #Q96GD4	<b>Entrez-Gene Id:</b> 9212
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Flow Cytometry (Fixed/Permeabilized)

#### Dilution

1:1000  
1:100  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

### Specificity / Sensitivity

Aurora B/AIM1 Antibody detects endogenous levels of Aurora B/AIM1 protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human Aurora B/AIM1. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

Aurora A (AIK) is a cell cycle-regulated Ser/Thr protein kinase that is overexpressed in many tumor cell lines (1-3). Phosphorylation of Aurora A at Thr288 within the kinase activation loop results in a significant increase in its activity and may target the protein for proteasomal degradation during mitosis (4). The closely-related kinase Aurora B (AIM1) has been implicated in multiple mitotic events (5), and siRNA silencing of Aurora B expression results in reduced histone H3 phosphorylation, aberrant chromosome alignment/segregation, and altered survivin localization (6).

### Background References

1. Bischoff, J.R. et al. (1998) *EMBO J* 17, 3052-65.
2. Zhou, H. et al. (1998) *Nat Genet* 20, 189-93.
3. Sen, S. et al. (1997) *Oncogene* 14, 2195-200.
4. Walter, A.O. et al. (2000) *Oncogene* 19, 4906-16.
5. Kallio, M.J. et al. (2002) *Curr Biol* 12, 900-5.
6. Hauf, S. et al. (2003) *J Cell Biol* 161, 281-94.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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