

#3092 Store at -20°C

Aurora A/AIK Antibody



Cell Signaling
TECHNOLOGY®

Orders: 877-616-CELL (2355)
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Web: info@cellsignal.com
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H Mk	Endogenous	48	Rabbit	#O14965	6790

Product Usage Information	Application Western Blotting	Dilution 1:1000
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 A/AIK Antibody detects endogenous levels of total Aurora A/AIK protein. The antibody may cross-react with AIK3.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human Aurora A/AIK. 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	<ol style="list-style-type: none"> 1. Bischoff, J.R. et al. (1998) <i>EMBO J</i> 17, 3052-65. 2. Zhou, H. et al. (1998) <i>Nat Genet</i> 20, 189-93. 3. Sen, S. et al. (1997) <i>Oncogene</i> 14, 2195-200. 4. Walter, A.O. et al. (2000) <i>Oncogene</i> 19, 4906-16. 5. Kallio, M.J. et al. (2002) <i>Curr Biol</i> 12, 900-5. 6. Hauf, S. et al. (2003) <i>J Cell Biol</i> 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
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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