

Store at -20C  #3092	Aurora A/AIK Antibody	
		<b>Orders:</b> 877-616-CELL (2355) orders@cellsignal.com
		<b>Support:</b> 877-678-TECH (8324)
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	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

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

**W:** Western Blotting

#### Cross-Reactivity Key

**H:** Human **Mk:** Monkey

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