#3092 Store at –20°C

Aurora A/AIK Antibody

Cell Signaling TECHNOLOGY®

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rev. 01/05/16

For Research Use Only. Not For Use In Diagnostic Procedures.

Entrez-Gene ID #6790
Swiss-Prot Acc. #O14965

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, Mk	48 kDa	Rabbit**

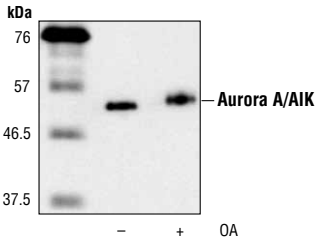
Background: Aurora A/AIK, a cell cycle-regulated serine/threonine protein kinase, is overexpressed in many tumor cell lines (1–3). Phosphorylation of Thr288, which is within the activation loop of the kinase, results in a significant increase in its activity and may target it for proteasomal degradation 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).

Specificity/Sensitivity: Aurora A/AIK Antibody detects endogenous levels of total Aurora A/AIK protein. The antibody may cross-react with AIK3.

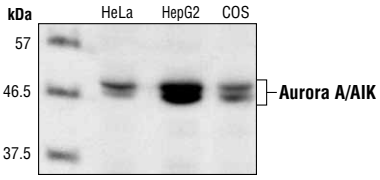
Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human Aurora A/AIK. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

(1) Bischoff, J.R. et al. (1998) *EMBO J.* 17, 3052–3065.
(2) Zhou, H. et al. (1998) *Nat. Genet.* 20, 189–193.
(3) Sen, S. et al. (1997) *Oncogene* 14, 2195–2200.
(4) Walter, A.O. et al. (2000) *Oncogene* 19, 4906–4916.
(5) Kallio, M.J. et al. (2002) *Curr. Biol.* 12, 900–905.
(6) Hauf, S. et al. (2003) *J. Cell Biol.* 161, 281–294.



Western blot analysis of purified mouse His-Aurora A/AIK expressed in Sf9 insect cells, untreated or treated with okadaic acid 1 hour prior to harvest, using Aurora A/AIK Antibody.



Western blot analysis of extracts from HeLa, HepG2 and COS cells, using Aurora 2/AIK Antibody.

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.*

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **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 **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.