

Aurora A (1F8) Mouse mAb

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Applications: W, IF-IC, FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 48	Source/Isotype: Mouse IgG1	UniProt ID: #O14965	Entrez-Gene Id: 6790
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Product Usage Information**Application**

Western Blotting
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:800
1:1600

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Aurora A (1F8) Mouse mAb recognizes endogenous levels of total Aurora A protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to human Aurora A protein.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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