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Aurora A (D3E4Q) Rabbit mAb (PE Conjugate)

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

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| Applications: FC-FP | Reactivity: H | Sensitivity: Endogenous | Source/Isotype: Rabbit IgG | UniProt ID: #O14965 | Entrez-Gene Id: 6790 |
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| Product Usage Information | Application Flow Cytometry (Fixed/Permeabilized) | Dilution 1:50 |
| Storage | Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze. | |
| Specificity/Sensitivity | Aurora A (D3E4Q) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Aurora A protein. | |
| Source / Purification | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro70 of human Aurora A protein. | |
| Description | This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Aurora A (D3E4Q) Rabbit mAb #14475. | |
| 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/seggregation, 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. | |

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| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). |
| Applications Key | FC-FP: Flow Cytometry (Fixed/Permeabilized) |
| Cross-Reactivity Key | H: Human |
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