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Phospho-Aurora A (Thr288)/Aurora B (Thr232)/Aurora C (Thr198) (D13A11) XP[®] Rabbit mAb (Alexa Fluor[®] 555 Conjugate)



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Applications: IF-IC	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UQB9, #Q96GD4, #O14965	Entrez-Gene Id: 6795, 9212, 6790	
Product Usage Information		Application Immunofluorescence (In	nmunocytochemistry)		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. <i>Do not aliquot ti</i> antibody. Protect from light. Do not freeze.				
Specificity/Sensiti	vity	Phospho-Aurora A (Thr28 Fluor [®] 555 Conjugate) de Thr288, Thr232, or Thr19	88)/Aurora B (Thr232)/Au etects endogenous level 98, respectively.	urora C (Thr198) (D13A1 s of Aurora A/B/C prote	1) XP [®] Rabbit mAb (Alexa in only when phosphorylated at	
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide correspresidues surrounding Thr232 of human Aurora B protein.					ic peptide corresponding to	
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 555 fluorescent dye and tester in-house for immunofluorescent analysis in human cells. The antibody is expected to exhibit the san species cross-reactivity as the unconjugated Phospho-Aurora A (Thr288)/Aurora B (Thr232)/Aurora C (Thr198) (D13A11) XP [®] Rabbit mAb <i>#</i> 2914.				
Background		Aurora kinases belong to a highly conserved family of mitotic serine/threonine kinases with three members identified among mammals: Aurora A, B, and C (1,2). Studies on the temporal expression pattern and subcellular localization of Aurora kinases in mitotic cells suggest an association with mitotic structure. Aurora kinase functional influences span from G2 phase to cytokinesis and may be involved in key cell cycle events such as centrosome duplication, chromosome bi-orientation and segregation, cleavage furrow positioning, and ingression (3). Aurora A is detected at the centrosomes, along mitotic spindle microtubules, and in the cytoplasm of mitotically proliferating cells. Aurora A protein levels are low during G1 and S phases and peak during the G2/M phase of the cell cycle. Phosphorylation of Aurora A at Thr288 in its catalytic domain increases kinase activity. Aurora A is involved in centrosome separation, maturation, and spindle assembly and stability. Expression of Aurora B protein also peaks during the G2/M phase of the cell cycle; Aurora B kinase activity peaks at the transition from metaphase to the end of mitosis. Aurora B regulates chromosome segregation through the control of microtubule-kinetochore attachment and cytokinesis. Expression of both Aurora A and Aurora B during the G2/M phase transition is tightly coordinated with histone H3 phosphorylation (4,5); research investigators have observed overexpression of these kinases in a variety of human cancers (2,4). Aurora C localizes to the centrosome from anaphase to cytokinesis and both mRNA and protein levels peak during G2/M phase. Although typical Aurora C expression is limited to the testis, research studies report overexpression of Aurora C is detected in various cancer cell lines (6).				
Background Refe	rences	1. Warner, S.L. et al. (200: 2. Katayama, H. et al. (20 3. Andrews, P.D. et al. (20 4. Pascreau, G. et al. (200 5. Crosio, C. et al. (2002) 6. Kimura, M. et al. (1999	 Mol Cancer Ther 2, 58 Cancer Metastasis R Curr Opin Cell Biol 1 Prog Cell Cycle Res 5, Mol Cell Biol 22, 874-85. J Biol Chem 274, 7334- 	9-95. 2ev 22, 451-64. 5, 672-83. . 369-74. 40.		
Species Reactivity	,	Species reactivity is deter	rmined by testing in at l	east one approved appl	ication (e.g., western blot).	
Applications Key		IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity K	(ey	H: Human M: Mouse R: Rat				

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