## **Revision 3**

Store at -20C

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## Phospho-Aurora A (Thr288)/Aurora B (Thr232)/Aurora C (Thr198) (D13A11) XP<sup>®</sup> Rabbit mAb



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<b>Applications:</b> W, IF-IC, FC-FP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 35, 40, 48	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9UQB9, #Q96GD4, #O14965	<b>Entrez-Gene Id:</b> 6795, 9212, 6790
Product Usage Information		<b>Application</b> Western Blotting Immunofluorescence Flow Cytometry (Fixed		istry)		<b>Dilution</b> 1:2000 1:50 1:50
Storage				), 150 mM NaCl, 100 µg. ot aliquot the antibody.	/ml BSA, 50% glyce	rol and less than
Specificity/Sensitivity		Phospho-Aurora A (Thr288)/Aurora B (Thr232)/Aurora C (Thr198) (D13A11) XP <sup>®</sup> Rabbit mAb detects endogenous levels of Aurora A/B/C only when phosphorylated at either Thr288, Thr232 or Thr198 respectively.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr232 of human Aurora B.				
Background		members identified a pattern and subcellul mitotic structure. Aur involved in key cell cy segregation, cleavage along mitotic spindle protein levels are low Phosphorylation of A involved in centroson Aurora B protein also the transition from m prophase prior to rele through the control of A and Aurora B durin- phosphorylation (4,5) variety of human can both mRNA and prote	mong mammals: Au ar localization of Au ora kinase functiona cle events such as ci- e furrow positioning microtubules, and i during G1 and S ph urora A at Thr288 in ne separation, matu peaks during the G- letaphase to the enco coalizing to the spino f microtubule-kinet g the G2/M phase tr ; research investigat cers (2,4). Aurora C l ein levels peak durin	ved family of mitotic ser irora A, B, and C (1,2). So rora kinases in mitotic c al influences span from - entrosome duplication, , and ingression (3). Aur n the cytoplasm of mito ases and peak during th its catalytic domain inco ration, and spindle asse 2/M phase of the cell cy of mitosis. Aurora B as dle at anaphase. Aurora bochore attachment and ansition is tightly coord coalizes to the centroso g G2/M phase. Althougl expression of Aurora C	udies on the tempe ells suggest an ass G2 phase to cytokir chromosome bi-ori ora A is detected at tically proliferating te G2/M phase of th reases kinase activi mbly and stability. cle; Aurora B kinase sociates with chrom B regulates chrom cytokinesis. Expres nated with histone expression of these me from anaphase n typical Aurora C e	oral expression ociation with hesis and may be entation and the centrosomes, cells. Aurora A he cell cycle. ty. Aurora A is Expression of e activity peaks at nosomes during osome segregation sion of both Aurora H3 e kinases in a to cytokinesis and xpression is limited
Background Refe	rences	1. Warner, S.L. et al. (2 2. Katayama, H. et al. 3. Andrews, P.D. et al. 4. Pascreau, G. et al. ( 5. Crosio, C. et al. (200 6. Kimura, M. et al. (1)	(2003) <i>Cancer Meta</i> (2003) <i>Curr Opin Ce</i> 2003) <i>Prog Cell Cycl</i> 02) <i>Mol Cell Biol</i> 22,	stasis Rev 22, 451-64. Il Biol 15, 672-83. e Res 5, 369-74. 374-85.		
Species Reactivity	,	Species reactivity is d	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buff	fer	IMPORTANT: For wes TBS, 0.1% Tween® 20		membrane with diluted haking, overnight.	primary antibody i	n 5% w/v BSA, 1X
Applications Key		W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				

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