#91590 Store at -20C

Aurora A (D3V7T) XP[®] Rabbit mAb

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

Applications: WB, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 48	Source/Isotype: Rabbit IgG	UniProt ID: #O14965	Entrez-Gene Id: 6790		
Product Usage	ŀ	Application			Dilution			
Information	v	Western Blotting			1:1000			
	li	Immunohistochemistry (Paraffin) 1:250 - 1:1000				00		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and les 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
	F	For a carrier free (BSA and azide free) version of this product see product #34453.						
Specificity / Sensi	tivity A	Aurora A (D3V7T) $XP^{\textcircled{B}}$ Rabbit mAb recognizes endogenous levels of total Aurora A protein.						
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Pro381 of human Aurora A protein.			sponding to			
Background	id st At Cy po m G in ar th B re Cy co of to ex ca	lentified among mamma ubcellular localization o urora kinase functional ycle events such as cer ositioning, and ingression incrotubules, and in the 1 and S phases and per its catalytic domain income a spindle assembly an the cell cycle; Aurora B k associates with chrom- egulates chromosome s ytokinesis. Expression of coordinated with histone f these kinases in a vari o cytokinesis and both n expression is limited to th ancer cell lines (6).	als: Aurora A, B, f Aurora kinases influences span htrosome duplica on (3). Aurora A cytoplasm of mir eak during the G creases kinase a d stability. Expre- tinase activity pe osomes during p egregation throu of both Aurora A H3 phosphoryla iety of human ca nRNA and prote- ne testis, researc	rved family of mitotic set and C (1,2). Studies on in mitotic cells suggest from G2 phase to cytok ation, chromosome bi-or is detected at the centro totically proliferating cell 2/M phase of the cell cy activity. Aurora A is involvession of Aurora B prote eaks at the transition from prophase prior to relocal ugh the control of microt and Aurora B during the tion (4,5); research invest ancers (2,4). Aurora C lo in levels peak during G2 ch studies report overex	the temporal expression an association with mi- kinesis and may be invo- ientation and segregat bosomes, along mitotic s s. Aurora A protein leve cle. Phosphorylation of ved in centrosome sepa- in also peaks during the n metaphase to the en- izing to the spindle at a ubule-kinetochore atta e G2/M phase transition estigators have observe calizes to the centroso	on pattern and totic structure. olved in key cell ion, cleavage furrow spindle els are low during f Aurora A at Thr288 aration, maturation, ne G2/M phase of id of mitosis. Aurora anaphase. Aurora B chment and n is tightly ed overexpression ome from anaphase pical Aurora C		
Background Refer	2. 3. 4. 5.	Warner, S.L. et al. (200 Katayama, H. et al. (20 Andrews, P.D. et al. (20 Pascreau, G. et al. (20 Crosio, C. et al. (2002) Kimura, M. et al. (1999	003) Cancer Me 003) Curr Opin 003) Prog Cell C) Mol Cell Biol 2	tastasis Rev 22, 451-64 Cell Biol 15, 672-83. ycle Res 5, 369-74. 2, 874-85.				
Species Reactivity	y Sp	becies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	stern blot).		
Western Blot Buff		PORTANT: For westerr 1% Tween® 20 at 4°C v		membrane with diluted ng, overnight.	primary antibody in 5%	6 w/v BSA, 1X TBS,		
Applications Key	w	B: Western Blotting	C-P: Immunohis	tochemistry (Paraffin)				
Cross-Reactivity k	Key							

1/1/24, 10:32 AM	Aurora A (D3V7T) XP® Rabbit mAb (#91590) Datasheet Without Images Cell Signaling Technology			
	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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 GP: Guinea Pig Rab: rabbit All: all species expected			
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