

Qty: 100μg/400 μL Rabbit anti-Aurora B Catalog No. 36-5200 Lot No.

# Rabbit anti-Aurora B

# FORM

This polyclonal antibody is supplied as a 400 µL aliquot at a concentration of 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. This antibody is epitope-affinity purified from rabbit antiserum.

# PAD: ZMD.361

# IMMUNOGEN

Synthetic peptide derived from the N-terminal region of the human Aurora B protein.

#### SPECIFICITY

This antibody reacts with the human Aurora B. On Western blots, it identifies the target band at ~39 kDa. A band of unknown origin is also observed at ~ 75 kDa.

# REACTIVITY

Reactivity has been confirmed with human HeLa cervical carcinoma cell lysates.

Sample	Western	Immunopreci-	Immunofluo-
	Blotting	pitation (Native)	rescence
Human	+++	++	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

#### USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunoprecipitation:	7 µg/mL
Western Blotting:	1-3 µg/mL
Immunofluorescence:	1-3 µg/mL

#### STORAGE

PI365200

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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# BACKGROUND

Human aurora A (aurora related kinase-1 (ARK-1), Aik1, STK15, BTAK, aurora2), and human aurora B (aurora related kinase-2 (ARK-2), Aik2, STK12, aurora1) are centrosome-associated serine/threonine kinases that regulate centrosome separation, bipolar spindle assembly, and chromosome segregation during mitosis.<sup>1, 2</sup> Aurora B has unique genetic loci relative to Aurora A suggesting that these two kinases, with oncogenic potential, have different roles in cell cycle progression.<sup>1, 3</sup>

Aurora B exists in a complex with survivin and inner centromere protein (INCENP) in mitosis, and its kinase activity is stimulated by survivin binding and cell cycle-dependent phosphorylation.<sup>4</sup> Phosphorylation of INCENP by aurora B stimulates aurora B kinase activity.<sup>5</sup>

#### REFERENCES

- 1. Bischoof JR, et al. Embo J 17:3052-3065, 1998.
- 2. Zhou H, et al. Nat Genet 20:189-193, 1998.
- 3. Shindo M, et al. Biochem Biophyus Res Commun 244:285-292, 1998.
- 4. Bolton MA, et al. *Mol Biol Cell* 13:3064-3077, 2002.
- 5. Bishop JD, et al. J Biol Chem 277:27577-27580, 2002.

#### **RELATED PRODUCTS**

Product	Conjugate	Cat. No.
Protein A	Sepharose <sup>®</sup> 4B	10-1041
rec-Protein G	Sepharose <sup>®</sup> 4B	10-1241

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Су™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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