



Qty: 100µg/400 µL

Rabbit anti-Aurora C

Catalog No. 38-9400

Lot No.

Rabbit anti-Aurora C

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.413

IMMUNOGEN

Synthetic peptide derived from an internal region of the human Aurora C (Serine/threonine-protein kinase 13, Serine/threonine kinase AIE2, Aurora/IPL1/Eg2 protein 2, Aurora/IPL1-related kinase 3) protein.

SPECIFICITY

This antibody reacts with the human Aurora C protein. On Western blots, it identifies the target band at ~32 kDa.

REACTIVITY

Reactivity has been confirmed with human placenta homogenates, and human JEG3, HEPG2, HeLa, HEK293, NGP96, SK-NP-1 and U251 cell lysates.

Sample	Western Blotting	Immunoprecipitation
Human	+++	0*

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

*No reactivity observed under conditions tested.

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.

Western Blotting: 1-3 µg/mL

STORAGE

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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PI389400

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BACKGROUND

Aurora C¹ is a member of the aurora/Ipl1p family of protein kinases that are important regulators of mitosis.² Aurora C is a novel chromosomal passenger protein that, in coordination with Aurora B, regulates mitotic chromosome dynamics in human cells.^{3,4} Aurora C may play a role in organizing microtubules relating to the function of the centrosome/spindle pole during mitosis, and is localized to the centrosome from anaphase to cytokinesis.⁵ The expression of Aurora C is maximum at M phase.⁵ Aurora C is activated by directly associating with inner centromere protein (INCENP).³ Aurora C is expressed in normal testis⁶, and elevated expression levels are seen in a subset of cancer cells such as HepG2 and HeLa cells.⁵

REFERENCES

1. Bernard M, et al. *Genomics* 53:406-409, 1998.
2. Katayama H et al. *Cancer Metastasis Rev* 22:451-464, 2003.
3. Li X, et al. *J Biol Chem*, in press 2004.
4. Sasai K, et al. *Cell Motil Cytoskel* in press 2004.
5. Kimura M, et al. *J Biol Chem* 274:7334-7340, 1999.
6. Tseng TC, et al. *DNA Cell Biol* 17:823-833, 1998.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 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
Cy [™] 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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