

Product Datasheet

Aurora A [p Thr288] Antibody

NB100-2371

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-2371

Aurora A [p Thr288] Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.25 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA

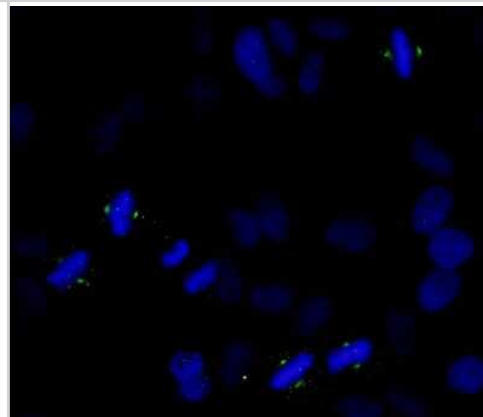
Product Description	
Host	Rabbit
Gene ID	6790
Gene Symbol	AURKA
Species	Human, Mouse, Porcine
Reactivity Notes	Porcine reactivity reported in scientific literature (PMID: 24983972). Mouse reactivity reported in scientific literature (PMID: 26174602).
Marker	Mitosis Marker
Immunogen	The immunogen recognized by this antibody maps to a region surrounding residue 288 when Threonine 288 is phosphorylated of human Aurora A Kinase using the numbering given entry NP_003591.2 (GenelD 6790).

Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Western Blot (Negative)
Recommended Dilutions	Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:100-1:500, Western Blot (Negative)
Application Notes	Formaldehyde-Fixed Cells: permeabilization with Triton-X 100 is recommended. Likely to work with frozen sections. IHC was reported in scientific literature (PMID: 23649868). Antibody has been tested for Western Blots on numerous occasions and has not been successfully used.

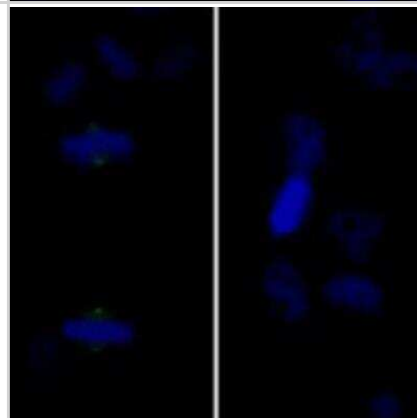


Images

Immunocytochemistry/Immunofluorescence: Aurora A [p Thr288]
Antibody [NB100-2371] - Samples: NBF-fixed asynchronous HeLa cells .
Antibody: Affinity purified rabbit anti-Phospho-Aurora A (T288) used at a dilution of 1:250. Detection: Anti-rabbit IgG-FITC conjugated used at a dilution of 1:100.



Immunocytochemistry/Immunofluorescence: Aurora A [p Thr288]
Antibody [NB100-2371] - NBF-fixed asynchronous HeLa cells. Mock phosphatase treated section (left) or calf intestinal phosphatase-treated section (right) immunostained for Phospho-Aurora A. Antibody: Affinity purified rabbit anti- Phospho-Aurora A (T288) (NB100-2371) used at a dilution of 1:250. Detection: Anti-rabbit IgG-FITC conjugated (NB7159) used at a dilution of 1:100.



Publications

Thomas A, Meraldi P Centrosome age breaks spindle size symmetry even in symmetrically dividing cells bioRxiv 2023-09-15 (ICC/IF, Human)

So C, Seres K. B, et al. A liquid-like spindle domain promotes acentrosomal spindle assembly in mammalian oocytes. Science 2019-06-28 [PMID: 31249032] (ICC/IF, Sheep, Mouse, Bovine, Porcine)

Wang X, Baumann C, De La Fuente R, Viveiros MM Loss of acentriolar MTOCs disrupts spindle pole Aurora A and assembly of the liquid-like meiotic spindle domain in oocytes Journal of cell science 2021-07-15 [PMID: 34152366]

Yoshida S, Nishiyama S, Lister L et al. Prc1-rich kinetochores are required for error-free acentrosomal spindle bipolarization during meiosis I in mouse oocytes Nat Commun 2020-05-27 [PMID: 32461611] (Human)

Vallot A, Leontiou I, Cladiere D et al. Tension-Induced Error Correction and Not Kinetochore Attachment Status Activates the SAC in an Aurora-B/C-Dependent Manner in Oocytes Curr. Biol. 2018-01-08 [PMID: 29276128] (ICC/IF)

Kovarikova V, Burkus J, Rehak P et al. Aurora kinase A is essential for correct chromosome segregation in mouse zygote. Zygote 2015-07-15 [PMID: 26174602] (Mouse)

Saskova A, Solc P, Baran V et al. Aurora kinase A controls meiosis I progression in mouse oocytes. Cell Cycle 2008-08-01 [PMID: 18677115]

Komrskova P, Susor A, Malik R et al. Aurora Kinase A Is Not Involved in CPEB1 Phosphorylation and cyclin B1 mRNA Polyadenylation during Meiotic Maturation of Porcine Oocytes. PLoS ONE 2014-07-02 [PMID: 24983972] (ICC/IF, Porcine)

Details:

Aurora A [p Thr288] antibody used for ICC-IF on Porcine oocytes isolated from ovaries from non-cycling gilts. Oocytes fixed in 4% PFA-PBS for 30 min, permeabilized in 0.1% Triton X-100 for 15 min, incubated with primary ON 4C followed by detection using Alexa Fluor conjugated anti-rabbit antibody (Figure 3).

Plotnikova OV, Pugacheva EN, Golemis EA et al. Aurora A kinase activity influences calcium signaling in kidney cells. J Cell Biol 2011-06-01 [PMID: 21670214]

Baran V, Solc P, Kovarikova V et al. Polo-like kinase 1 is essential for the first mitotic division in the mouse embryo. Mol Reprod Dev 2013-05-06 [PMID: 23649868] (IF/IHC, ICC/IF, Mouse)

Solc P, Baran V, Mayer A et al. Aurora Kinase A Drives MTOC Biogenesis but Does Not Trigger Resumption of Meiosis in Mouse Oocytes Matured In Vivo Biol Reprod 2012-10-01 [PMID: 22837479]





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Products Related to NB100-2371

NBL1-07855	Aurora A Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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