.-online.com antibodies

# Datasheet for ABIN968261 anti-Aurora A antibody (AA 8-116)

3 Images

4 Publications



#### Overview

Quantity:	150 µg
Target:	Aurora A (AURKA)
Binding Specificity:	AA 8-116
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Aurora A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

### Product Details

Immunogen:	Mouse IAK1 aa. 8-116
Clone:	4-IAK1
lsotype:	lgG1
Cross-Reactivity:	Human, Rat (Rattus)
Characteristics:	<ol> <li>Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>Please refer to us for technical protocols.</li> <li>Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> <li>Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> </ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN968261 | 02/13/2024 | Copyright antibodies-online. All rights reserved. chromatography.

## Target Details

Preservative:

Target:	Aurora A (AURKA)
Alternative Name:	IAK1 (AURKA Products)
Background:	Cell division is a tightly regulated process that ensures the segregation of chromosomes into
	daughter cells. Essential to this regulation is the modification of cell cycle components by
	reversible phosphorylation. Ipl1 and aurora are two related kinases isolated from S.cerevisiae
	and Drosophila, respectively. Inactivation of these kinases results in abnormal chromosome
	segregation and disruption of the centrosome. A structurally and functionally similar kinase,
	IAK1 (IpI1- and Aurora-related kinase 1), is a regulator of mammalian chromosome segregation.
	Although IAK1 may be present in the cytoplasm, it is detected on the centrosome following
	duplication and also associates with the spindle microtubules from metaphase through cell
	division. Expression of IAK1 is stringently regulated during the cell cycle. Both mRNA and
	protein are initially expressed in S-phase, are elevated during M-phase, and are undetectable
	following completion of mitosis. Increasing evidence suggests that IAK1 belongs to a novel
	subfamily of the ser/thr kinase superfamily. Although mutational analysis of IAK1 will directly
	determine its function, it appears to be a key player in the control of cell division.
	Synonyms: Aurora-A Kinase
Molecular Weight:	46 kDa
Pathways:	Cell Division Cycle, Asymmetric Protein Localization
Application Details	
Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09$ % sodium azide.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN968261 | 02/13/2024 | Copyright antibodies-online. All rights reserved.

Sodium azide

Handling	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Kiat, Hui, Gopalan: "Aurora-A kinase interacting protein (AIP), a novel negative regulator of
	human Aurora-A kinase." in: The Journal of biological chemistry, Vol. 277, Issue 47, pp. 45558-
	65, (2002) (PubMed).
	Sakai, Urano, Ookata, Kim, Hirai, Saito, Nojima, Ishikawa: "MBD3 and HDAC1, two components
	of the NuRD complex, are localized at Aurora-A-positive centrosomes in M phase." in: <b>The</b>
	Journal of biological chemistry, Vol. 277, Issue 50, pp. 48714-23, (2002) (PubMed).
	Katayama, Ota, Jisaki, Ueda, Tanaka, Odashima, Suzuki, Terada, Tatsuka: "Mitotic kinase
	expression and colorectal cancer progression." in: Journal of the National Cancer Institute, Vol.
	91, Issue 13, pp. 1160-2, (1999) (PubMed).
	Gopalan, Chan, Donovan: "A novel mammalian, mitotic spindle-associated kinase is related to
	yeast and fly chromosome segregation regulators." in: The Journal of cell biology, Vol. 138,
	Issue 3, pp. 643-56, (1997) (PubMed).

#### Images



### Western Blotting

**Image 1.** Western blot analysis of IAK1 on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-IAK1 antibody.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN968261 | 02/13/2024 | Copyright antibodies-online. All rights reserved.



#### Immunofluorescence

**Image 2.** Immunofluorescence staining of human endothelial cells.

Image 3.

#### Generated from mouse IAK1



Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN968261 | 02/13/2024 | Copyright antibodies-online. All rights reserved.