

Datasheet for ABIN968260

anti-Aurora A antibody (AA 8-116)

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Overview

Quantity:	50 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
Isotype:	IgG1
Cross-Reactivity:	Human, Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. 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. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

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 <i>S.cerevisiae</i> and <i>Drosophila</i>, respectively. Inactivation of these kinases results in abnormal chromosome segregation and disruption of the centrosome. A structurally and functionally similar kinase, IAK1 (Ipl1- 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 ≤0.09 % sodium azide.
Preservative:	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

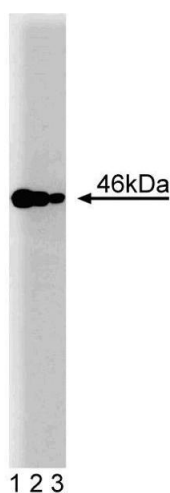
Product cited in: Kiat, Hui, Gopalan: "Aurora-A kinase interacting protein (AIP), a novel negative regulator of human Aurora-A kinase." in: **The Journal of biological chemistry**, Vol. 277, Issue 47, pp. 45558-65, (2002) ([PubMed](#)).

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: **The 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](#)).

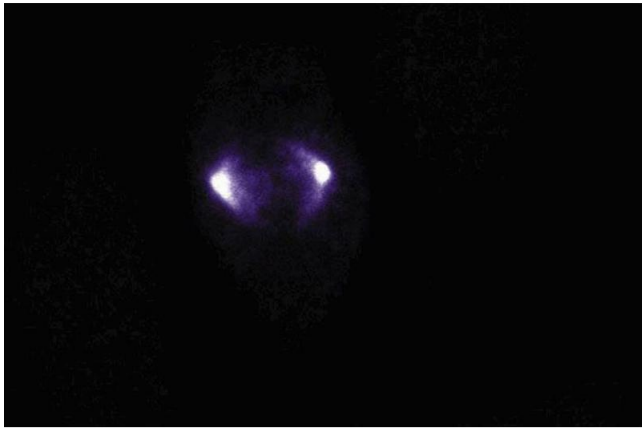
Gopalan, Chan, Donovan: "A novel mammalian, mitotic spindle-associated kinase is related to yeast and fly chromosome segregation regulators." in: **The Journal of cell biology**, Vol. 138, Issue 3, pp. 643-56, (1997) ([PubMed](#)).

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.



Immunofluorescence

Image 2. Immunofluorescence staining of human endothelial cells.