

# Recombinant Human Aurora A protein ab86846

### 1 图像

#### 描述

产品名称	重组人Aurora A蛋白
纯度	> 95 % SDS-PAGE. ab86846 is purified using conventional chromatography techniques.
表达系统	Escherichia coli
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	<pre> MGSSHHHHHH  SSGLVPRGSH  MDRSKENCIS GPVKATAPVG  GPKRVLVTQQ  FPCQNPLPVN SGQAQRVLCV  SNSSQRIPLQ  AQKLVSSHKP VQNQKQKQLQ  ATSVPHVPSR  PLNNTQKSKQ PLPSAPENNP  EEELASKQKN  EESKKRQWAL EDFEIGRPLG  KGKFGNVYLA  REKQSKFILA LKVLFKAQLE  KAGVEHQLRR  EVEIQSHLRH PNILRLYGYF  HDATRVYLIL  EYAPLGTVYR ELQKLSKFDE  QRTATYITEL  ANALSYCHSK RVIHRDIKPE  NLLLGSAGEL  KIADFGWSVH APSSRRTTLC  GTLDYLPPEM  IEGRMHDEKV DLWSLGVLCY  EFLVGKPPFE  ANTYQETYKR ISRVEFTFPD  FVTEGARDLI  SRLKHNPSQ RPMLREVLEH  PWITANSSKP  SNCQNKESAS  KQS           </pre>

#### 技术指标

Our **Abpromise guarantee** covers the use of **ab86846** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE
形式	Liquid

#### 制备和贮存

## 稳定性和存储

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

pH: 8.00

Constituents: 0.0038% EGTA, 0.0077% DTT, 0.316% Tris HCl, 0.00292% EDTA, 0.58% Sodium chloride

## 常规信息

### 功能

Contributes to the regulation of cell cycle progression. Required for normal mitosis. Associates with the centrosome and the spindle microtubules during mitosis and functions in centrosome maturation, spindle assembly, maintenance of spindle bipolarity, centrosome separation and mitotic checkpoint control. Phosphorylates numerous target proteins, including ARHGEF2, BRCA1, KIF2A, NDEL1, PARD3, PLK1 and BORA. Regulates KIF2A tubulin depolymerase activity (By similarity). Required for normal axon formation. Plays a role in microtubule remodeling during neurite extension. Important for microtubule formation and/or stabilization.

### 组织特异性

Highly expressed in testis and weakly in skeletal muscle, thymus and spleen. Also highly expressed in colon, ovarian, prostate, neuroblastoma, breast and cervical cancer cell lines.

### 序列相似性

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily. Contains 1 protein kinase domain.

### 翻译后修饰

Activated by phosphorylation at Thr-288; this brings about a change in the conformation of the activation segment. Phosphorylation at Thr-288 varies during the cell cycle and is highest during M phase. Autophosphorylated at Thr-288 upon TPX2 binding. Phosphorylated upon DNA damage, probably by ATM or ATR.

Ubiquitinated by CHFR, leading to its degradation by the proteasome (By similarity).

Ubiquitinated by the anaphase-promoting complex (APC), leading to its degradation by the proteasome.

### 细胞定位

Cytoplasm > cytoskeleton > centrosome. Cytoplasm > cytoskeleton > spindle pole. Detected at the neurite hillock in developing neurons (By similarity). Localizes on centrosomes in interphase cells and at each spindle pole in mitosis.

## 图片



15% SDS-PAGE showing ab86846 at approximately 47.9kDa (3µg).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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