abcam

Product datasheet

Recombinant Human Aurora A protein ab86846

画像数1

製品の詳細

製品名 Recombinant Human Aurora A protein

精製度 > 95 % SDS-PAGE.

ab86846 is purified using conventional chromatography techniques.

発現系 Escherichia coli

タンパク質長 Full length protein

Animal free No.

由来 Recombinant

生物種 Human

配列 MGSSHHHHHH SSGLVPRGSH MDRSKENCIS

GPVKATAPVG GPKRVLVTQQ FPCQNPLPVN
SGQAQRVLCP SNSSQRIPLQ AQKLVSSHKP
VQNQKQKQLQ ATSVPHPVSR 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 SRLLKHNPSQ
RPMLREVLEH PWITANSSKP SNCQNKESAS KQS

特性

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.

アプリケーション SDS-PAGE

製品の状態 Liquid

前処理および保存

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保存方法および安定性

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

関連情報

機能

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.

組織特異性

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.

配列類似性

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

Contains 1 protein kinase domain.

翻訳後修飾

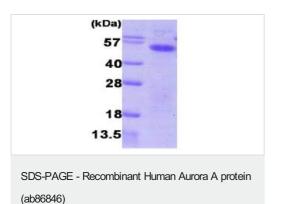
Activated by phosphorylation at Thr-288; this brings about a change in the conformation of the activation segment. Phosphorylation at Thr-288 varies during the cell cycle and is highest during M phase. Autophosphorylated at Thr-288 upon TPX2 binding. Phosphorylated upon DNA damage, probably by ATM or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

細胞内局在

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.

画像



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

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