# **PRODUCT INFORMATION**

Catalog number ATGA0185

Clone No. AT2B1

**Product type** Monoclonal Antibody

UnitProt No. Q96GD4

NCBI Accession No. NP\_004208

### **Alternative Names**

Serine/threonine-protein kinase 12, Aurora-B, AIK2, AIM1, ARK2, AurB, aurkb-sv1, aurkb-sv2, IPL1, STK12, aurkb, AIM1, AuRKB, Aurora 1, STK1, STK5, Aurora and Ipl1 like midbody associated protein 1, Aurora kinase B, Aurora related kinase 2, Aurora/IPL1 related kinase 2, Serine/theronine kinase 12, Serine/threonine protein kinase 12

## **PRODUCT SPECIFICATION**

### **Antibody Host**

Mouse

**Reacts With** Human

**Concentration** 1mg/ml (determined by BCA assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

### Immunogen

Recombinant human Aurora kinase B (1-344aa) purified from E. coli

### Isotype

IgG2b kappa

### **Purification Note**

By protein-A affinity chromatography

### Application

ELISA,WB,FACS

### Usage

The antibody has been tested by ELISA, Western blot and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



#### Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### BACKGROUND

#### Description

The aurora family (A, B and C) are serine threonine kinases and key regulators of chromosome segregation during mitosis. Aurora kinase B is a chromosomal passenger protein that regulates chromosome segregation and cytokinesis. Aurora kinase B is associated with the level of genetic instability within tumours and patient survival. It is strongly expressed in exponentially proliferating bronchial epithelial cells in culture and that this expression is markedly reduced in confluent cells. It is also shown that almost all tumours show higher levels of Aurora kinase B expression than their matched normal lung tissues, which could therefore simply be a consequence of a higher proliferative index, or be typical of the progenitor cell and atypical of the bulk of normal lung cells.

### **General References**

Posch M, et al. (2010) J Cell Biol, 191(1):61-74. Lisa L, et al. (2009) J Cell Biol, 186(4): 491-507. S L Smith, et al. (2005) Br J Cancer, 93(6): 719-729.

### DATA

#### Western blot analysis (WB)



Flow cytometry (FACS)



The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Aurora kinase B antibody (1:1000). Proteins were visualized using a goat antimouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant Human Aurora kinase A Lane 2.: Recombinant Human Aurora kinase B

Flow cytometry analysis of Aurora B in LNCap cells. The cell was stained with ATGA0185 at 2-5ug for 1x10<sup>6</sup>cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

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