Product information

Monoclonal anti-human AURKB antibody (clone AT2B1)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0185

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

NCBI Accession No.: NP_004208

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human Aurora kinase B mAb, clone AT2B1, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Aurora kinase B protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Application: ELISA, WB, Flow cytometry, ICC/IF

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com

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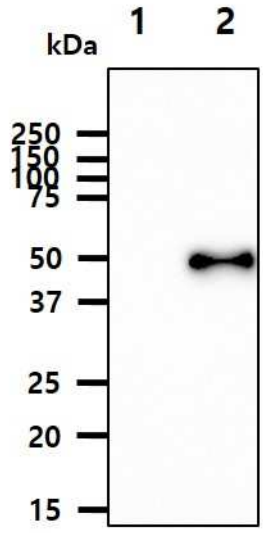
Western blot analysis

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 anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

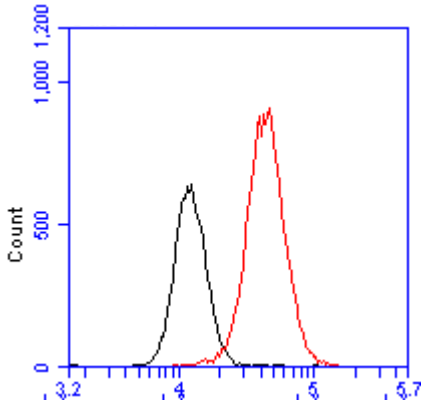
Lane 1.: Recombinant Human Aurora kinase A

Lane 2.: Recombinant Human Aurora kinase B



Flow cytometry

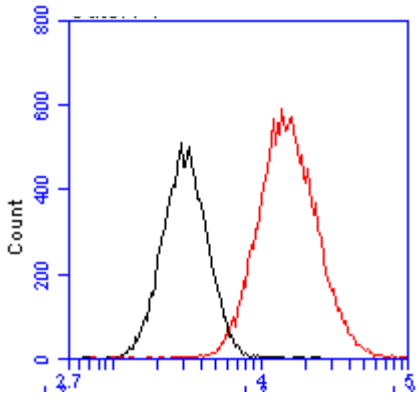
Flow cytometry analysis of AURKB in LNCaP cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-AURKB

Flow cytometry

Flow cytometry analysis of AURKB in HeLa cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



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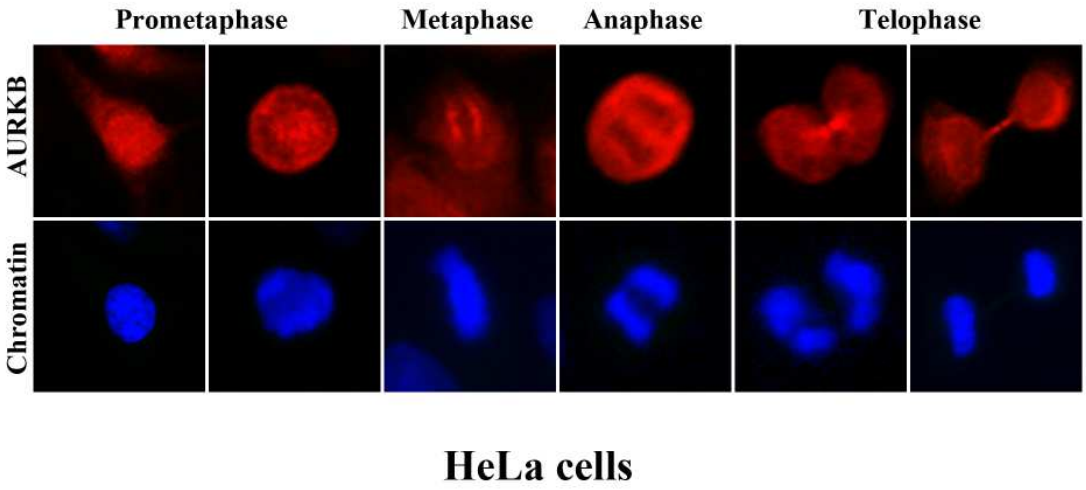
ICC/IF analysis

ICC/IF analysis of human HeLa cells stained with Hoechst 3342 (Blue) for chromatin staining and monoclonal anti-human Aurora kinase B antibody (1:2000) with Texas Red (Red).



HeLa 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.

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