

AM09372PU-S**Monoclonal Antibody to Aurora kinase B - Purified**

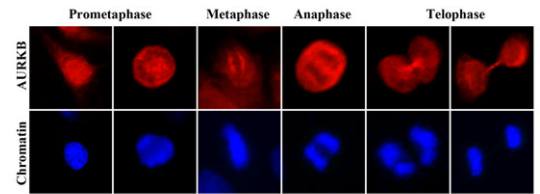
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| Alternate names: | AIK2, AIM1, ARK2, AURKB, Aurora- and Ipl1-like midbody-associated protein 1, Aurora-B, Aurora/IPL1-related kinase 2, STK-1, STK12, Serine/threonine-protein kinase 12 |
| Quantity: | 50 µl |
| Concentration: | 1.0 mg/ml |
| Background: | 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. |
| Uniprot ID: | Q96GD4 |
| NCBI: | NP_004208 |
| GenElD: | 9212 |
| Host / Isotype: | Mouse / IgG2b |
| Recommended Isotype Controls: | SM12P, AM03110PU-N |
| Clone: | AT2B1 |
| Immunogen: | Recombinant human Aurora kinase B (1-344aa) purified from E. coli |
| Format: | State: Liquid purified Ig fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol |
| Applications: | ELISA. WesternBlot. Flow Cytometry. Immunofluorescence: 1/1000-1/2000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | The antibody recognizes Human Aurora kinase B. Other species not tested. |
| Storage: | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |
| General Readings: | 1. Posch M, Khoudoli GA, Swift S, King EM, Deluca JG, Swedlow JR. Sds22 regulates aurora B activity and microtubule-kinetochore interactions at mitosis. J Cell Biol. 2010 Oct 4;191(1):61-74. doi: 10.1083/jcb.200912046. PubMed PMID: 20921135. |

2. Hall LL, Byron M, Pageau G, Lawrence JB. AURKB-mediated effects on chromatin regulate binding versus release of XIST RNA to the inactive chromosome. *J Cell Biol.* 2009 Aug 24;186(4):491-507. doi: 10.1083/jcb.200811143. PubMed PMID: 19704020.

3. Smith SL, Bowers NL, Betticher DC, Gautschi O, Ratschiller D, Hoban PR, et al. Overexpression of aurora B kinase (AURKB) in primary non-small cell lung carcinoma is frequent, generally driven from one allele, and correlates with the level of genetic instability. *Br J Cancer.* 2005 Sep 19;93(6):719-29. PubMed PMID: 16222316.

Pictures:

Immunofluorescence of human HeLa cells stained with Hoechst 3342 (Blue) for chromatin staining and monoclonal anti-human Aurora kinase B antibody Cat.-No. AM09372PU (1:2000) with Texas Red (Red).



HeLa cells