

**MONOCLONAL ANTIBODY TO HUMAN AURORA-A KINASE
(CROSS REACTIVE WITH MOUSE)
clone 35C1**



Catalog nr	HM2123 (lot number and expiry date are indicated on the label)
Description	<p>Monoclonal antibody 35C1 reacts with mammalian aurora-A kinase which is a member of the kinase family that is named after the <i>Drosophila aurora</i> kinase Nigg. There are three different kinases (aurora-A, aurora-B and aurora-C) which are involved in centrosome separation. Aurora kinases share a conserved C-terminal kinase catalytic domain but have a different N-terminal non catalytic domain. They show different localization during mitosis and fulfill different functions. The most important feature of these kinases is that they are overexpressed in various primary tumors. For instance aurora-A is significantly downregulated in a subset of breast tumors.</p> <p>Aurora-A kinase is also known as aurora-related kinase 1 (ARK1), breast-tumor-amplified kinase (BTAK) and serine/threonine kinase 6 or 15 (STK6 or STK15).</p> <p>Monoclonal antibody 35C1 has been selected for reactivity with human and mouse aurora-A kinase and binds to duplicated centrosomes and spindle poles. Monoclonal antibody 35C1 does not inhibit the aurora-A kinase activity.</p>
Species	Mouse IgG _{2b}
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Application	The antibody can be used for immunohistology on frozen and paraffin sections, flow cytometry and Western blotting. Furthermore the antibody is useful for immuno precipitation and immuno assays as detector. The antibody does not inhibit the biological activity of aurora-A kinase.
Use	For Western blotting, flow cytometry and immunohistology dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.
References	<ol style="list-style-type: none">1. Cremet, J et al; Preparation and characterization of a human aurora-A kinase monoclonal antibody. <i>Mol Cell Biochem</i> 2003, 243: 1232. Conte, N et al; TACC1-chTOG-Aurora A protein complex in breast cancer. <i>Oncogene</i> 2003, 22: 8102
Also available	HM5007 Monoclonal antibody against Human BPDE-DNA, clone 5D11 HM5008 Monoclonal antibody against Human BPDE, clone 8E11