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## 36-3498: Anti-Aurora B (Proliferation Marker) Monoclonal Antibody(Clone: AURKB/1592)

Clone Name: Monoclonal AURKB/1592

Application: IHC
Reactivity: Human
Gene: AURKB
Gene ID: 9212
Uniprot ID: Q96GD4

AIK2; AIM-1; ARK-2; AurB; AURKB; Aurora-1; Aurora and IpI1 like midbody associated protein 1;

Alternative Name:

Aurora kinase B; Aurora-B; Aurora-R; Aurora-Related kinase 2; Aurora/IPL1-related kinase 2; IPL1; Protein

phosphatase 1 regulatory subunit 48 (PPP1R48); Serine/threonine-protein kinase 12;

Serine/threonine-protein kinase aurora-B; STK1; STK12; STK5

**Isotype:** Mouse IgG1, kappa

Immunogen Information: Recombinant fragment (around aa 89-251) of human Aurora B protein (exact sequence is

proprietary)

## **Description**

Recognizes a protein of 39kDa, which is identified as Aurora B. The serine/threonine protein kinase aurora B (Aurora B) is a chromosomal passenger protein critical for accurate chromosome segregation, cytokinesis, protein localization to the centromere and kinetochore, correct microtubule-kinetochore attachment, and regulation of the mitotic checkpoint. Aurora B forms a tight complex with inner centrosome protein and survivin. Inactivation of any of these proteins causes similar defects in chromosome segregation. A significant overexpression of Aurora B has been found in a variety of human tumors including non-small cell lung carcinoma, astrocytoma, seminoma and carcinomas of the colon, prostate, endometrium and thyroid. The expression level of Aurora B is associated with cell proliferation and prognosis in these tumors.

## **Product Info**

**Amount :** 20 μg / 100 μg

Content: 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with

0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage condition:

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is

stable for 24 months. Non-hazardous.

## **Application Note**

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

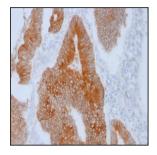


Fig. 1: Formalin-fixed, paraffin-embedded human Colon stained with Aurora B Mouse Monoclonal Antibody (AURKB/1592).



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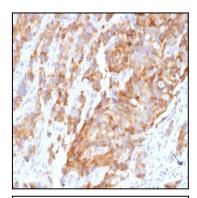


Fig. 2: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with Aurora B Mouse Monoclonal Antibody (AURKB/1592).

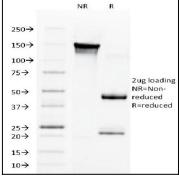


Fig. 3: SDS-PAGE Analysis Purified Aurora B Mouse Monoclonal Antibody (AURKB/1592). Confirmation of Integrity and Purity of Antibody.