

## Anti-Aurora B Antibody [AURKB/1593] (A250524)

### Specifications:

|                        |  |
|------------------------|--|
| Name:                  | Anti-Aurora B Antibody [AURKB/1593]  |
| Description:           | Mouse monoclonal [AURKB/1593] antibody to Aurora B.  |
| Specificity:           | This antibody 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. |
| Applications:          | IHC-P  |
| Recommended Dilutions: | IHC-P: 1-2 µg/ml   |
| Reactivity:            | Human  |
| Immunogen:             | Recombinant fragment, around amino acids 89-251, of human Aurora B protein. The exact sequence is proprietary.   |
| Host:                  | Mouse  |
| Clonality:             | Monoclonal   |
| Clone ID:              | AURKB/1593   |
| Isotype:               | IgG1   |
| Light Chains:          | kappa  |
| Conjugate:             | Unconjugated   |
| Purification:          | Protein A/G chromatography.  |
| Concentration:         | 200 µg/ml  |
| Product Form:          | Liquid   |
| Formulation:           | Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.  |
| Storage:               | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.  |

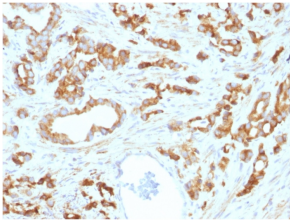
## Anti-Aurora B Antibody [AURKB/1593] (A250524)

### Specifications continued:

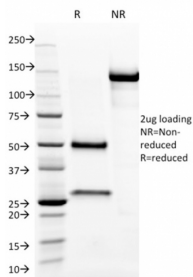
**General Notes:** This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-Aurora B Antibody [AURKB/1593] - BSA and Azide free (A253704).

**Disclaimer:** This product is for research use only. It is not intended for diagnostic or therapeutic use.

### Images:



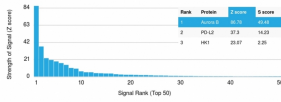
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human prostate using Anti-Aurora B Antibody [AURKB/1593].



SDS-PAGE analysis of Anti-Aurora B Antibody [AURKB/1593] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.

## Anti-Aurora B Antibody [AURKB/1593] (A250524)

Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-Aurora B Antibody [AURKB/1593]. Z-Score and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target; a MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.