

## IVD DATA SHEET

### Aurora B

Concentrated Rabbit Monoclonal Antibody

#### Intended Use:

For in Vitro Diagnostic Use

Epitomics' Rabbit Monoclonal Anti-Human Aurora kinase B (Aurora B), Clone EP136, is intended for use to qualitatively identify Aurora B by light microscopy in sections of formalin-fixed, paraffin-embedded tissue using immunohistochemical detection methodology. Interpretation of any positive or negative staining must be complemented with the evaluation of proper controls and must be made within the context of the patient's clinical history and other diagnostic tests. Evaluation must be performed by a qualified pathologist.

Catalog number	Description	Dilution
AC-0196A	0.1 ml, concentrated	1:20
AC-0196B	0.5 ml, concentrated	1:20
AC-0196	1 ml, concentrated	1:20
AC-0196BULK	2 ml or more, concentrated	1:20

<b>Immunogen:</b>	A synthetic peptide corresponding to residues of human Aurora kinase B (Aurora B) protein
<b>Source:</b>	Rabbit Monoclonal Antibody
<b>Clone ID:</b>	EP136
<b>Isotype:</b>	Rabbit IgG
<b>Application:</b>	Immunohistochemistry for formalin-fixed paraffin-embedded tissue

#### Summary and Explanation:

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.

#### Reagent Provided:

Antibody to Aurora B is affinity purified and diluted in 10 mM phosphate buffered saline (PBS), pH 7.2 containing 1% bovine serum albumin (BSA) and 0.09% sodium azide (NaN<sub>3</sub>).

#### Storage and Stability:

Store at 2-8 °C. Don't use after expiration date provided on the vial. End user must validate any storage conditions other than those specified.

#### Procedures Recommended:

- 1. Pretreatment:** Epitope retrieval using Tris/EDTA buffer (catalog #: SP-0004) with a pressure cooker.
- 2. Endogenous peroxidase block:** Block for 10 minutes at room temperature using peroxidase solution (catalog #: SP-0002).
- 3. Protein block:** Block for 10 minutes at room temperature using blocking solution (catalog #: SP-0003).
- 4. Primary antibody:** Incubate for 30 minutes.
- 5. Detection:** Follow instructions from the selected detection system (EpiPrecision™, a Biotin Streptavidin-HRP Detection, catalog #: DK-0001, 0003, or EpiVision™, a Rabbit Polymer Detection, catalog # DK-0002, 0004).

The antibody dilution and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory.

#### Performance Characteristics:

This antibody gives nuclear staining in positive cells. The recommended positive controls are Tonsil for normal tissue and Colon cancer for abnormal tissue.

#### Limitations:

Immunohistochemistry is a complex process. Variation in tissue selection, tissue processing, antigen retrieval, peroxidase activity, detection systems and improper counterstaining may cause variation in results.

#### References:

1. Katayama H, et al.: Cancer Metastasis Rev 2003, 22:451-464
2. Honda R, et al.: Mol Biol Cell 2003, 14:3325-3341
3. Araki K, et al.: J Neurooncol 2004, 67:53-64
4. Chieffi P, et al.: J Endocrinol 2004, 181:263-270
5. Katayama H, et al.: J Natl Cancer Inst 1999, 91:1160-1162
6. Chieffi P, et al.: Prostate 2006, 66:326-333
7. Sorrentino R, et al.: J Clin Endocrinol Metab 2005, 90:928-935
8. Vischioni B, et al.: Mol Cancer Ther 2006, 5:2905-2913

100611 Rev. 03

