



Anti-AURKB (aa 227-238) polyclonal antibody (CPBT-67777RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

This product detects Aurora-B kinase (AurB), a serine/threonine kinase which is the enzymatic core of the Chromosomal Passenger Complex (CPC). This complex functions in chromosome alignment and separation, histone modification, and cytokinesis. CPC also includes three non-enzymatic subunits known as the inner centromere protein (INCENP), survivin, and borealin, which determine the activity, localisation, stability, and possibly even the substrate specificity of AurB. Two CPCs exist during mitosis- one containing all four members, and another consisting of INCENP and AurB. Quaternary CPC functions during chromosome alignment and cytokinesis, whereas the INCENP-AurB complex may be responsible for modifying histone H3. AurB is overexpressed in a number of tumours, including primary breast and colon tumour samples. Its expression in tumours seems to be linked with Aurora-A kinase, suggesting a feedback mechanism between the two proteins. Western Blotting detects a band of approximately 39kDa in HeLa cell lysates.

Specificity	AURORA-B KINASE
Immunogen	Synthetic peptide corresponding to amino acids 227-238 of human Aurora-B kinase.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Bovine, Chimpanzee, Dog, Mouse, Pig, Rat
Conjugate	Unconjugated
Applications	ELISA; WB
Format	Purified IgG - liquid
Size	50 µg

Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	AURKB aurora kinase B [Homo sapiens (human)]
Official Symbol	AURKB
Synonyms	AURKB; aurora kinase B; AIK2; AIM1; ARK2; AurB; IPL1; STK5; AIM-1; STK12; PPP1R48; aurkb-sv1; aurkb-sv2; ARK-2; STK-1; aurora 1; aurora-1; aurora-B; aurora kinase B-Sv1; aurora kinase B-Sv2; aurora-related kinase 2; serine/threonine kinase 12; aurora/IPL1
Entrez Gene ID	9212
Protein Refseq	NP_001243763
UniProt ID	Q96GD4
Chromosome Location	17p13.1
Pathway	APC/C-mediated degradation of cell cycle proteins; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1; Aurora A signaling; Aurora B signaling; Aurora C signaling; Cell Cycle; Cell Cycle, Mitotic; FOXM1 transcription factor network;
Function	ATP binding; histone serine kinase activity; metal ion binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity;