

Product datasheet

Anti-IPL-1/STK13/Aurora C antibody ab38298

2 Images

Overview

Product name	Anti-IPL-1/STK13/Aurora C antibody
Description	Rabbit polyclonal to IPL-1/STK13/Aurora C
Host species	Rabbit
Tested applications	Suitable for: WB, ELISA, ICC/IF Unsuitable for: IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide conjugated to KLH, selected from within amino acids 1-50 of Human IPL-1/STK13/Aurora C, (N terminal region).
Positive control	293 cell lysates and HeLa cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

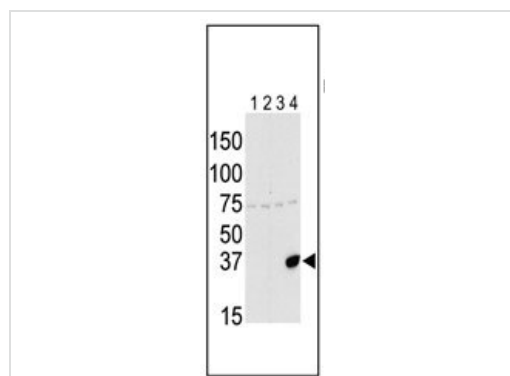
Our [Abpromise guarantee](#) covers the use of **ab38298** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/100 - 1/500. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa).
ELISA		1/1000.

Application	Abreviews	Notes
ICC/IF		1/100 - 1/500.
Application notes		Is unsuitable for IP.
Target		
Function		May play a part in organizing microtubules in relation to the function of the centrosome/spindle pole during mitosis. May also contribute to the regulation of chromosome segregation and cytokinesis.
Tissue specificity		Isoform 1 and isoform 2 are expressed in testis. Elevated expression levels were seen only in a subset of cancer cells such as HepG2, HuH7 and HeLa cells. Expression is maximum at M phase.
Involvement in disease		Defects in AURKC are the cause of male infertility with large-headed multiflagellar polyploid spermatozoa (MIMPS) [MIM:243060]; also known as infertility associated with multi-tailed spermatozoa and excessive DNA.
Sequence similarities		Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily. Contains 1 protein kinase domain.
Cellular localization		Chromosome. Cytoplasm > cytoskeleton > spindle. Distributes in the condensed chromosomes during prophase to metaphase. After entering anaphase, there is a dissociation from separated chromosomes and a redistribution to midzone microtubules, and finally remains in the midbody during cytokinesis.

Images



Western blot - Anti-IPL-1/STK13/Aurora C antibody (ab38298)

This image is courtesy of Drs. K. Sasai and S. Sen from the University of Texas MD Anderson Cancer Center (Houston, TX).

All lanes : Anti-IPL-1/STK13/Aurora C antibody (ab38298) at 1/100 dilution

Lane 1 : 293 cell lysate expressing Flag tag

Lane 2 : 293 cell lysate expressing Flag tagged Aurora A

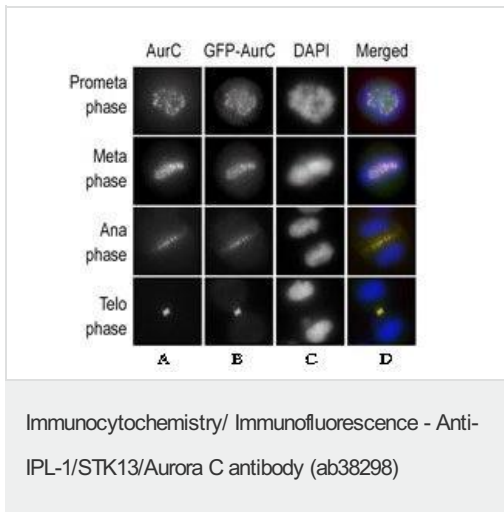
Lane 3 : 293 cell lysate expressing Flag tagged Aurora B

Lane 4 : 293 cell lysate expressing Flag tagged Aurora C

Predicted band size: 36 kDa

Observed band size: 36 kDa

Additional bands at: 75 kDa. We are unsure as to the identity of these extra bands.



ICC/IF image of ab38298 at 1/100 dilution staining HeLa cells, expressing GFP-Aurora C, at different cellular mitotic stages. The images show (A), the primary antibody (B), GFP fluorescence (C), DAPI nuclear staining and (D) ab38298 merged to DAPI staining.

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