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Rabbit Anti-Aurora C antibody

SL2750R

Product Name:	Aurora C
Chinese Name:	有丝分裂激酶B抗体
Alias:	IPL-1/STK13/Aurora C; AURKC; AIE2; AIK3; AurC; AURKC; Aurora C; Aurora/Ipl1 related kinase 3; IPL-1; Aurora/Ipl1/Eg2 protein 2; EC 2.7.11.1; Serine threonine protein kinase 13; STK13; AURKC_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	36kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Aurora C:51-150/344
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The Aurora kinases, members of the Ser/Thr protein kinase family, associate with microtubules during chromosome movement and segregation. Aurora kinase C may play a part in organizing microtubules in relation to the function of the centrosome/spindle pole during mitosis. This protein is localized to centrosome from anaphase to cytokinesis. Expression is limited to testis in normal cells. Elevated expression levels are seen only in a subset of cancer cells such as HepG2, HuH7 and

HeLa cells. Aurora-C expression is maximum at M phase.

Function:
Serine/threonine-protein kinase component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Plays also a role in meiosis and more particularly in spermatogenesis. Has redundant cellular functions with AURKB and can rescue an AURKB knockdown. Like AURKB, AURKC phosphorylates histone H3 at 'Ser-10' and 'Ser-28'. Phosphorylates TACC1, another protein involved in cell division, at 'Ser-228'.

Subunit:
Component of the chromosomal passenger complex (CPC) composed of at least BIRC5/survivin, CDCA8/borealin, INCENP, AURKB and AURKC. Interacts directly with BIRC5/survivin and INCENP. Interacts with TACC1.

Subcellular Location:
Nucleus. Chromosome. Chromosome, centromere. Cytoplasm, cytoskeleton, spindle. Note=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.

Tissue Specificity:
Isoform 1 and isoform 2 are expressed in testis. Elevated expression levels were seen only in a subset of cancer cell lines such as Hep-G2, Huh-7 and HeLa. Expression is maximum at M phase.

DISEASE:
Spermatogenic failure 5 (SPGF5) [MIM:243060]: An infertility disorder caused by spermatogenesis defects. Semen from affected men show close to 100% morphologically abnormal multiflagellar spermatozoa with low motility, oversized irregular heads, and abnormal midpiece and acrosome. Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:
Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily.
Contains 1 protein kinase domain.

SWISS:
Q9UQB9

Gene ID:
6795

Database links:

Entrez Gene: 6795Human

Omim: 603495Human

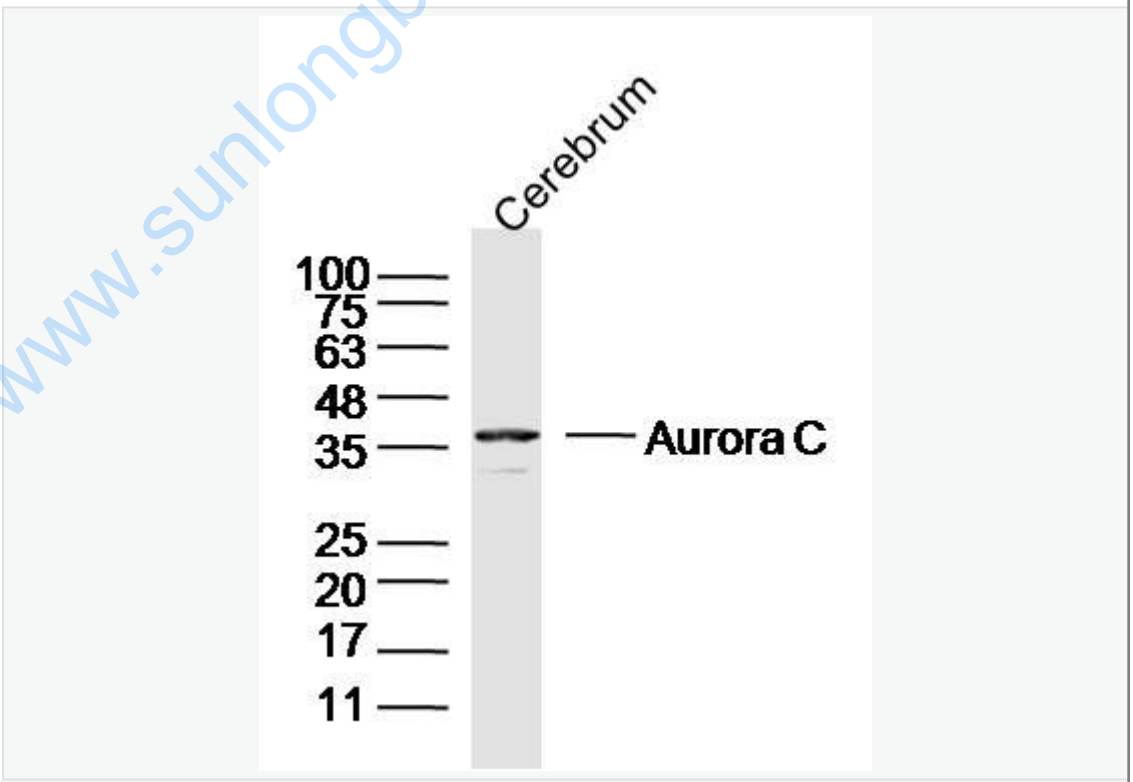
SwissProt: Q9UQB9Human

Unigene: 98338Human

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

细胞的有丝分裂是生物体最基本的生命活动过程,能将复制的基因组精确地分配到下一代子细胞中,在长期的生物进化过程中，生物体形成了一整套完善的监测机制以确保遗传物质精确地分配到子细胞中。
Aurora激酶(极光激酶)是细胞有丝分裂调控网络中的一类重要的丝氨酸/苏氨酸激酶，Aurora酪氨酸激酶B也是丝氨酸/苏氨酸激酶家族成员之一，目前分为aurora A，B及C。

Picture:



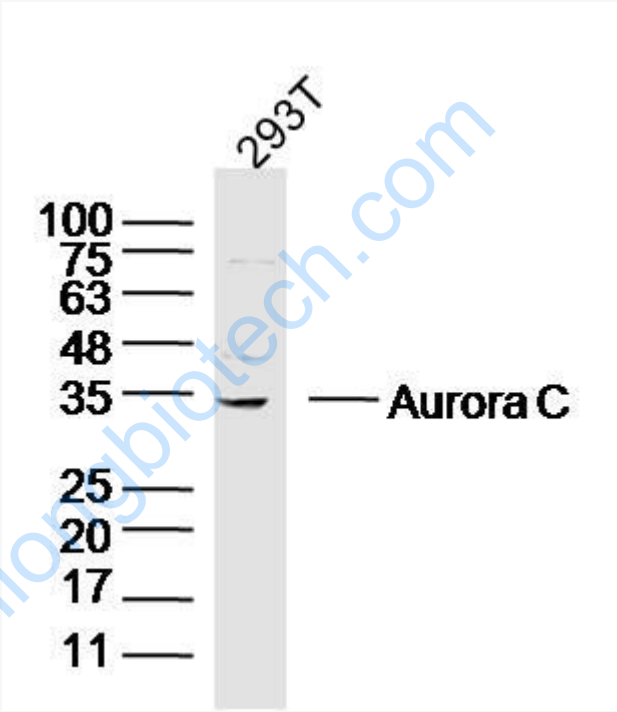
Sample: Cerebrum(Mouse)Lysate at 40 ug

Primary: Anti-Aurora C(SL2750R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution

Predicted band size: 36kD

Observed band size: 36kD



Sample: 293T (Human)Cell Lysate at 40 ug

Primary: Anti-Aurora C(SL2750R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution

Predicted band size: 36kD

Observed band size:35 kD