

AURKC Antibody (N-Term)
Peptide-affinity purified goat antibody
Catalog # AF3107a

Specification

AURKC Antibody (N-Term) - Product Information

Application	WB
Primary Accession	O9UQB9
Other Accession	NP_001015878.1 , 6795
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	35591

AURKC Antibody (N-Term) - Additional Information

Gene ID 6795

Other Names

Aurora kinase C, 2.7.11.1, Aurora 3, Aurora/IPL1-related kinase 3, ARK-3, Aurora-related kinase 3, Aurora/IPL1/Eg2 protein 2, Serine/threonine-protein kinase 13, Serine/threonine-protein kinase aurora-C, AURKC, AIE2, AIK3, AIRK3, ARK3, STK13

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

AURKC Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

AURKC Antibody (N-Term) - Protein Information

Name AURKC

Synonyms AIE2, AIK3, AIRK3, ARK3, STK13

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. Also plays 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'. AURKC phosphorylates the CPC complex subunits BIRC5/survivin and INCENP leading to increased AURKC activity. Phosphorylates TACC1, another protein involved in cell division, at 'Ser-228'.

Cellular 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 Location

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

AURKC Antibody (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AURKC Antibody (N-Term) - Images



AF3107a (1.5 µg/ml) staining of Human Testis lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

AURKC Antibody (N-Term) - Background

This antibody is expected to recognize isoform 1 (NP_001015878.1) only.

AURKC Antibody (N-Term) - References

The Aurora Kinase C c.144delC mutation causes meiosis I arrest in men and is frequent in the North African population. Dieterich K, Zouari R, Harbuz R, Vialard F, Martinez D, Bellayou H, Prisant N, Zoghmar A, Guichaoua MR, Koscinski I, Kharouf M, Noruzinia M, Nadifi S, Sefiani A, Lornage J, Zahi M, Viville S, SÃ"le B, Jouk PS, Jacob MC, Escalier D, Nikas Y, Hennebicq S, L Human molecular genetics 2009 Apr 18 (7): 1301-9. PMID: 19147683