

For Research Use Only

AURKA Monoclonal antibody

Catalog Number: 66757-1-Ig

Featured Product

18 Publications



Basic Information

Catalog Number:

66757-1-Ig

GenBank Accession Number:

BC002499

Purification Method:

Protein A purification

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 567 ug/ml by Bradford method using BSA as the standard;

GeneID (NCBI):

6790

CloneNo.:

1F4B10

Source:

Mouse

UNIPROT ID:

O14965

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:300-1:1200

IF/ICC 1:400-1:1600

Isotype:

IgG3

Full Name:

aurora kinase A

Calculated MW:

46 kDa

Immunogen Catalog Number:

AG20096

Observed MW:

46-52 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, CoIP, ChIP

Species Specificity:

Human, Mouse, Rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human testis tissue, HeLa cells, NCCIT cells, rat testis tissue, mouse testis tissue

IHC : human breast cancer tissue,

IF/ICC : HeLa cells,

Background Information

AURKA(Aurora kinase A), also named as STK6, STK15 or AIK, belongs to the Ser/Thr protein kinase family. This protein may play a role in cell cycle regulation during anaphase and/or telophase by being involved in microtubule formation and/or stabilization. Some recent evidence revealed that AURKA may also be implicated in tumor development and progression. AURKA is expressed highly in testis and various proliferating cells, migrating as a 46 kDa protein in SDS PAGE. Nuclear staining for AURKA is weak or nonexistent in normal tissue but strong in tumor tissue(PMID:19107951).

Notable Publications

Author	Pubmed ID	Journal	Application
Jing Hang	36248973	Front Oncol	WB
Xumei Liu	36292957	Int J Mol Sci	WB
Qian Long	33117697	Front Oncol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

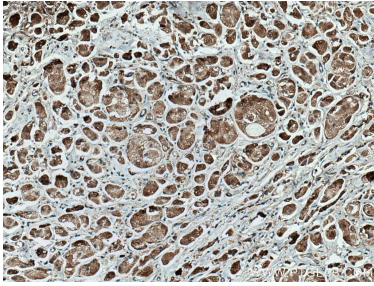
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

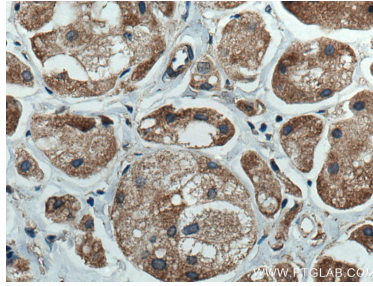
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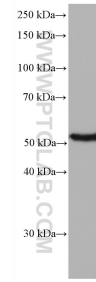
Selected Validation Data



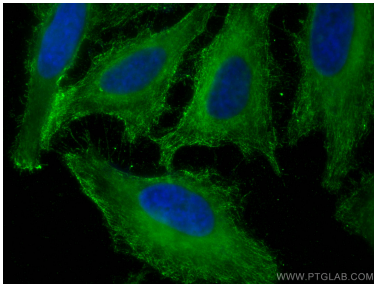
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66757-1-Ig (AURKA antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



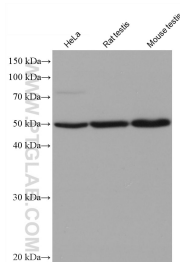
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66757-1-Ig (AURKA antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



human testis tissue were subjected to SDS PAGE followed by western blot with 66757-1-Ig (AURKA antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using AURKA antibody (66757-1-Ig, Clone: 1F4B10) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 66757-1-Ig (AURKA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.