For Research Use Only

NuMA Polyclonal antibody

Catalog Number:16607-1-AP 4 Publications

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Basic Information

Catalog Number:
16607-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9815

GenBank Accession Number:
BC013023

GeneID (NCBI):
4926

UNIPROT ID:
Q14980

Full Name:
nuclear mitotic apparatus protein 1

Calculated MW:
238 kDa

Observed MW:
238 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:50-1:500
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat, monkey

Cited Species:
human, pig

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 : HeLa cells, K-562 cells, NIH/3T3 cells, PC-12 cells, COS-7 cells

IHC : human breast cancer tissue,

IF/ICC : HCT 116 cells,

Background Information

NUMA1, also named as Nuclear matrix protein-22, is a 2115 amino acid protein, which forms multiarm oligomers by association of C-terminal tail domains. NUMA1 resides in the nuclear matrix during interphase. NUMA1 is a highly abundant component of the nuclear matrix where it may serve a non-mitotic structural role and occupies the majority if the nuclear volume. NUMA1 is required for maintenance and establishment of the mitotic spindle poles during symmetric cell divisions, functioning as a tether linking bulk microtubules of the spindle to centrosomes.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhen-Guo Wang	42401126	DNA Repair (Amst)	
Zhen-Guo Wang	42182184	bioRxiv	WB
Si Sun	41888115	Cell Death Dis	WB

Storage

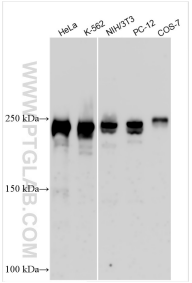
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

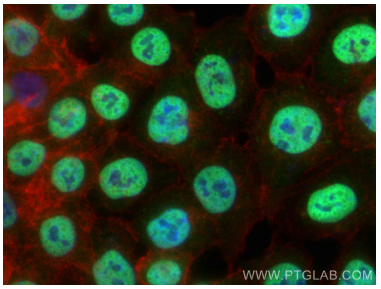
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

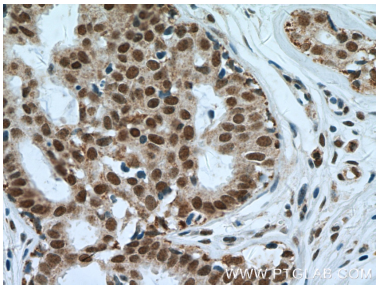
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16607-1-AP (NuMA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HCT 116 cells using NuMA antibody (16607-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16607-1-AP (NuMA antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).