

For Research Use Only

# NuMA Polyclonal antibody

Catalog Number: 16607-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 16607-1-AP	<b>GenBank Accession Number:</b> BC013023	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4926	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q14980	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> nuclear mitotic apparatus protein 1	<b>IF/ICC 1:200-1:800</b>
<b>Immunogen Catalog Number:</b> AG9815	<b>Calculated MW:</b> 238 kDa	
	<b>Observed MW:</b> 238 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF	<b>WB :</b> HeLa cells,
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human breast cancer tissue,
<b>Cited Species:</b> pig	<b>IF/ICC :</b> HCT 116 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 of 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
Carolyn M Remsburg	36751992	J Cell Sci	IF

## Storage

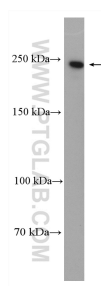
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

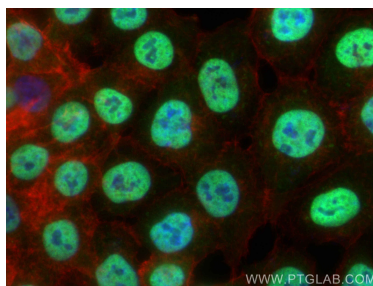
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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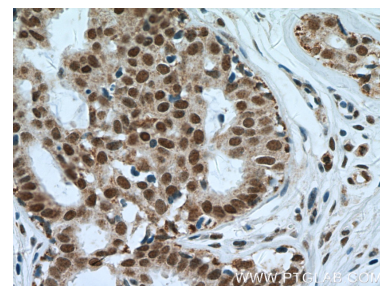
## Selected Validation Data



HeLa cells 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 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).