



Rabbit Anti-Phospho-NuMA (Ser395) antibody

SL3312R

Product Name:	Phospho-NuMA (Ser395)
Chinese Name:	磷酸化核有丝分裂器NuMA蛋白抗体
Alias:	NuMA (Phospho Ser395); NuMA (Phospho S395); p-NuMA (Ser395); NUMA 1; NuMA protein; NUMA1; SP H antigen; Structural nuclear protein; Centrophilin stabilizes mitotic spindle in mitotic cells; Nuclear mitotic apparatus protein 1; Nuclear mitotic apparatus protein; NUMA1_HUMAN; NMP 22; NMP22; Nuclear matrix protein 22; Nuclear mitotic apparatus protein 1; Nuclear mitotic apparatus protein; NuMA protein; SP-H antigen.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	238kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human NuMA around the phosphorylation site of Ser395:HL(p-S)QL
Isotype:	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

NuMA (Nuclear Mitotic Apparatus Protein) is an intranuclear protein and present in nucleus during interphase. At the onset of mitosis, it redistributes from the nucleus to two centrosomal structures that later will become part of the mitotic spindle pole. After anaphase, the protein redistributes from the spindle polar region into reforming nucleus. NuMA is an essential protein during mitosis for the terminal phases of chromosome separation and/or nuclear reassembly. Recently a study shows that NuMA is cleaved to a 180 to 200kDa during apoptosis.

Function:

Highly abundant component of the nuclear matrix where it may serve a non-mitotic structural role, occupies the majority of the nuclear volume. Required for maintenance and establishment of the mitotic spindle poles, functioning as a tether linking bulk microtubules of the spindle to centrosomes. May be involved in coordination of the alignment of the mitotic spindle to the cellular polarity axis, which is a prerequisite for asymmetric cell divisions.

Subunit:

Homodimer. Also forms multiarm oligomers by association of C-terminal tail domains, oligomers may further assemble to form a hexagonal nuclear lattice-like network. Interacts with TNKS.

Subcellular Location:

Nucleus matrix. Chromosome. Cytoplasm, cytoskeleton, spindle pole. Note=Resides in the nuclear matrix during interphases. Dissociates from condensing chromosomes during early prophase, and relocates to the spindle poles via dynein/dynamin association, it remain there until the anaphase onset. Before the complete disintegration of the nuclear lamina. As mitosis progresses it reassociates with telophase chromosomes very early during nuclear reformation, before substantial accumulation of lamins on chromosomal surfaces is evident.

Isoform Numa-m: Cytoplasm. Note=Mainly clustered at the centrosomal region.

Isoform Numa-s: Cytoplasm. Note=Mainly clustered at the centrosomal region.

Post-translational modifications:

ADP-ribosylated by TNKS during mitosis.

Phosphorylated in the C-terminal tail during mitosis, probably by CDK1.

Phosphorylation increases solubility and promotes association with dynein and subsequent translocation to the spindle poles.

SWISS:

Q14980

Gene ID:

4926

Database links:

Product Detail:

[Entrez Gene: 4926](#)Human

[Entrez Gene: 101706](#)Mouse

[Entrez Gene: 308870](#)Rat

[Omim: 164009](#)Human

[SwissProt: Q14980](#)Human

[SwissProt: Q3TH77](#)Mouse

[SwissProt: Q4G051](#)Rat

[Unigene: 325978](#)Human

[Unigene: 66392](#)Rat

Important Note:

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

NuMA (Nuclear mitotic apparatus protein)是The nucleus基质中的一种高分子量蛋白质, 具有一个特殊的细胞周期依赖性.核有丝分裂器蛋白NuMA与人类Tumour细胞的恶性增殖相关.

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