# NuMA (Phospho Ser395) Rabbit pAb

CatalogNo: YP1422

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB

MW
- 240kD (Observed)

Isotype
- IgG

## Storage

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| **Storage*** | -15°C to -25°C/1 year (Do not lower than -25°C) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |

## Recommended Dilution Ratios

**WB 1:1000-2000**

## Basic Information

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| **Clonality** | Polyclonal |

## Immunogen Information

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| **Immunogen** | Synthesized phosho peptide around human NuMA (Ser395) |
| **Specificity** | This antibody detects endogenous levels of Human NuMA (phospho-Ser395) |

## Target Information

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| **Gene name** | NUMA1 NUMA |

**Protein Name** NuMA (Ser395)

| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 4926; | Q14980; |

**Cellular Localization** Nucleus . Nucleus , nucleoplasm . Nucleus matrix . Chromosome . Cytoplasm , cytoskeleton . Cytoplasm , cytoskeleton , microtubule organizing center , centrosome . Cytoplasm , cytoskeleton , spindle pole . Cytoplasm , cell cortex . Cell membrane ; Lipid-anchor ; Cytoplasmic side . Lateral cell membrane . Mitotic cell cycle-dependent shuttling protein that relocalizes from the interphase nucleus to the spindle poles and cell cortex (PubMed:1541636 , PubMed:10811826) . The localization to the spindle poles is regulated by AAAS (PubMed:26246606) . In interphase , resides in the nuclear matrix (PubMed:1541630 , PubMed:1541636 , PubMed:23921553) . In prophase , restricted to the interchromatin or condensed chromosome space (PubMed:10811826) . In prometaphase , after nuclear envelope disassembly , forms aggregates both in the spindle midzone and at duplicated centrosomes and astral microtubules (MTs) of the bipolar spindle apparatus (PubMed:10811826) . Translocates from the spindle midzone towards the spindle poles along spindle fibers in a MT- and dynein-dynactin-dependent manner until the anaphase onset (PubMed:1541636 , PubMed:10811826) . In metaphase , recruited to the polar cortical region in a GPSM2- and GNAI1-dependent manner (PubMed:23870127 , PubMed:24109598 , PubMed:24996901) . Excluded from the metaphase equatorial cortical region in a RanGTP-dependent manner (PubMed:22327364 , PubMed:23870127) . Phosphorylation on Thr-2055 by CDK1 results in its localization at spindle poles in metaphase , but not at the cell cortex (PubMed:23921553) . In anaphase , recruited and anchored at the cell membrane of the polar cortical region in a EPB41- , EPB41L2- , phosphatidylinositol-dependent and GPSM2- and G (i) alpha proteins-independent manner (PubMed:23870127 , PubMed:24996901 , PubMed:24109598 , PubMed:24371089) . Excluded from the anaphase equatorial region of the cell cortex in a RACGAP1- and KIF23-dependent and RanGTP-independent manner (PubMed:24996901) . Associated with astral MTs emanating from the spindle poles during anaphase (PubMed:12445386 , PubMed:24996901) . Nonphosphorylated Thr-2055 localizes at the cell cortex , weakly during metaphase and more prominently during anaphase in a phosphatase PPP2CA-dependent manner (PubMed:23921553) . As mitosis progresses it reassociates with telophase chromosomes very early during nuclear reformation , before substantial accumulation of lamins on chromosomal surfaces is evident (PubMed:1541636) . Localizes to the tips of cortical MTs in prometaphase (PubMed:26765568) . Localizes along MTs and specifically to both MT plus and minus ends (PubMed:26765568) . Accumulates also at MT tips near the cell periphery (PubMed:26765568) . Colocalizes with GPSM2 at mitotic spindle poles during mitosis (PubMed:11781568 , PubMed:21816348) . Colocalizes with SPAG5 at mitotic spindle at prometaphase and at mitotic spindle poles at metaphase and anaphase (PubMed:27462074) . Colocalizes with ABRO1 at mitotic spindle poles (PubMed:26195665) . Colocalized with TNKS from prophase through to anaphase in mitosis (PubMed:16076287) . Colocalizes with tubulin alpha (PubMed:12445386) . CCSAP is essential for its centrosomal localization (PubMed:26562023) . In horizontally retinal progenitor dividing cells , localized to the lateral cortical region (By similarity) . .; [Isoform 3]: Cytoplasm , cytosol . Cytoplasm , cytoskeleton , microtubule organizing center , centrosome . Cytoplasm , cytoskeleton , spindle pole . During interphase , mainly clustered at the centrosomal region in the cytosol. After entry into mitosis , detected at mitotic spindle poles. .; [Isoform 4]: Cytoplasm , cytosol . Cytoplasm , cytoskeleton , microtubule organizing center , centrosome . Cytoplasm , cytoskeleton , spindle pole . During interphase , mainly clustered at the centrosomal region in the cytosol. After entry into mitosis , detected at mitotic spindle poles. .

**Tissue specificity** Brain ,Epithelium ,Kidney ,Lung ,Muscle ,Ovary ,Testis ,Uterus ,

**Function** Function:May be a structural component of the nucleus. ,subcellular location:Dissociates from condensing chromosomes during early prophase , 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. ,

## Validation Data

## Contact information


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