

## NuMA (Phospho Thr2055) Rabbit pAb

CatalogNo: YP1423

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 240kD (Observed)

#### Isotype

- IgG

### Storage

**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

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human NuMA (Thr2055)

**Specificity** This antibody detects endogenous levels of Human NuMA (phospho-Thr2055)

### Target Information

**Gene name** NUMA1 NUMA

**Protein Name** NuMA (Thr2055)

<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
Human	<a href="#">4926</a> ;	<a href="#">Q14980</a> ;

**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 GPM2- 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 GPM2- 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 GPM2 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

Orders: order.cn@immunoway.com  
Support: support.cn@immunoway.com  
Telephone: 400-8787-807(China)  
Website: <http://www.immunoway.com.cn>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:  
**NuMA (Phospho Thr2055) Rabbit pAb**

---

For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)