

## Nuclear Mitotic Apparatus Protein (NuMA) Antibody

Mouse Monoclonal Antibody [Clone SPM300]

Catalog No	Format	Size
4926-MSM1X-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4926-MSM1X-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4926-MSM1X-P1BX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

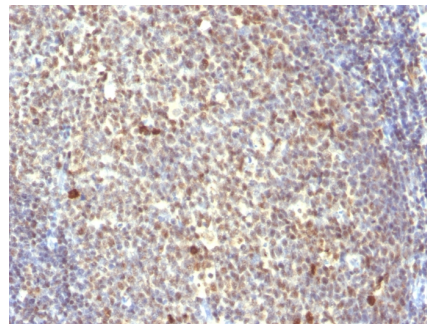
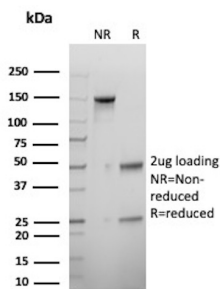
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

<b>Clone</b>	SPM300
<b>Gene Name</b>	NUMA1
<b>Immunogen</b>	Colon carcinoma 174T cells
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgM / Kappa
<b>Mol. Weight of Antigen</b>	228kDa
<b>Cellular Localization</b>	Cell cortex, Cell membrane, Centrosome, Chromosome, Cytoplasm, Cytoskeleton, Cytosol, Lateral cell membrane, Microtubule organizing center, Nucleoplasm, Nucleus, Nucleus matrix, Spindle pole
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Exponentially growing any cultured human cells. Tonsil or lymph node.

\*Optimal dilution for a specific application should be determined.

### Product Images for Nuclear Mitotic Apparatus Protein (NuMA) Antibody



SDS-PAGE Analysis of Purified Nuclear mitotic apparatus protein 1 Mouse Monoclonal Antibody (SPM300). Confirmation of Purity and Integrity of Antibody.

Formalin-fixed, paraffin-embedded human Tonsil stained with NuMA Mouse Monoclonal Antibody (SPM300).

### **Specificity & Comments**

Recognizes a phosphorylated protein of 228kDa, identified as nuclear mitotic apparatus protein (NuMA). Its epitope is resistant to phosphatases. NuMA is intra-nuclear 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. Chromosomal translocation of this gene with the RARA (retinoic acid receptor, alpha) gene on chromosome 17 has been detected in patients with acute promyelocytic leukemia.

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### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### **Supplied As**

200ug/ml of Ab Purified from Bioreactor Concentrate by PEG precipitation. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.

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### **Storage and Stability**

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### **Research Areas**

Cancer, Nuclear Marker

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