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## anti-NUMA1 antibody (N-Term)

3 Images

Target:



		Go to Product page

Overview	
Quantity:	100 μL
Target:	NUMA1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NUMA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human NuMA, corresponding to a region within N-terminal amino acids.
Isotype:	lgG
Specificity:	NuMA Antibody detects endogenous levels of total NuMA.
Predicted Reactivity:	Pig
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).
Target Details	

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NUMA1

Target Details		
Alternative Name:	NUMA1 (NUMA1 Products)	
Background:	Description: Microtubule (MT)-binding protein that plays a role in the formation and	
	maintenance of the spindle poles and the alignement and the segregation of chromosomes	
	during mitotic cell division (PubMed:7769006, PubMed:17172455, PubMed:19255246,	
	PubMed:24996901, PubMed:26195665, PubMed:27462074). Functions to tether the minus	
	ends of MTs at the spindle poles, which is critical for the establishment and maintenance of the	
	spindle poles (PubMed:12445386, PubMed:11956313). Plays a role in the establishment of the	
	mitotic spindle orientation during metaphase and elongation during anaphase in a dynein-	
	dynactin-dependent manner (PubMed:23870127, PubMed:24109598, PubMed:24996901,	
	PubMed:26765568). In metaphase, part of a ternary complex composed of GPSM2 and G(i)	
	alpha proteins, that regulates the recruitment and anchorage of the dynein-dynactin complex in	
	the mitotic cell cortex regions situated above the two spindle poles, and hence regulates the	
	correct oritentation of the mitotic spindle (PubMed:23027904, PubMed:22327364,	
	PubMed:23921553). During anaphase, mediates the recruitment and accumulation of the	
	dynein-dynactin complex at the cell membrane of the polar cortical region through direct	
	association with phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2), and hence participates in	
	the regulation of the spindle elongation and chromosome segregation (PubMed:22327364,	
	PubMed:23921553, PubMed:24996901, PubMed:24371089). Binds also to other polyanionic	
	phosphoinositides, such as phosphatidylinositol 3-phosphate (PIP), lysophosphatidic acid (LPA)	
	and phosphatidylinositol triphosphate (PIP3), in vitro (PubMed:24996901, PubMed:24371089).	
	Also required for proper orientation of the mitotic spindle during asymmetric cell divisions	
	(PubMed:21816348). Plays a role in mitotic MT aster assembly (PubMed:11163243,	
	PubMed:11229403, PubMed:12445386). Involved in anastral spindle assembly	
	(PubMed:25657325). Positively regulates TNKS protein localization to spindle poles in mitosis	
	(PubMed:16076287). Highly abundant component of the nuclear matrix where it may serve a	
	non-mitotic structural role, occupies the majority of the nuclear volume (PubMed:10075938).	
	Required for epidermal differentiation and hair follicle morphogenesis (By similarity).	
	Gene: NUMA1	
Molecular Weight:	240 kDa	
Gene ID:	4926	
UniProt:	Q14980	

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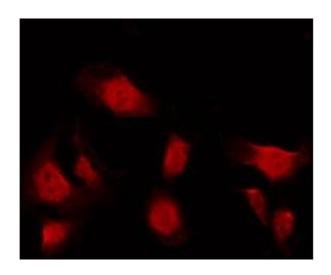
Caspase Cascade in Apoptosis, Regulation of Actin Filament Polymerization, M Phase

Pathways:

### **Application Details**

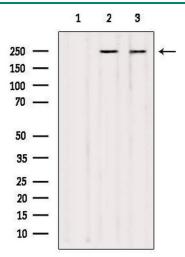
, application because		
Application Notes:	WB 1:500-1:1000, IHC: 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %	
	glycerol.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.	
Expiry Date:	12 months	

#### **Images**



#### Immunofluorescence (fixed cells)

**Image 1.** ABIN6275314 staining A549 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25¡ãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37¡ãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibod



#### **Western Blotting**

**Image 2.** Western blot analysis of extracts from various samples, using NUMA1 Antibody. Lane 1: Mouse lung treated with blocking peptide; Lane 2: Mouse lung;Lane 3: Mouse muscle.



#### **Immunohistochemistry**

**Image 3.** ABIN6275314 at 1/100 staining Mouse spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22<sub>i</sub>ãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary