Technical Data Sheet

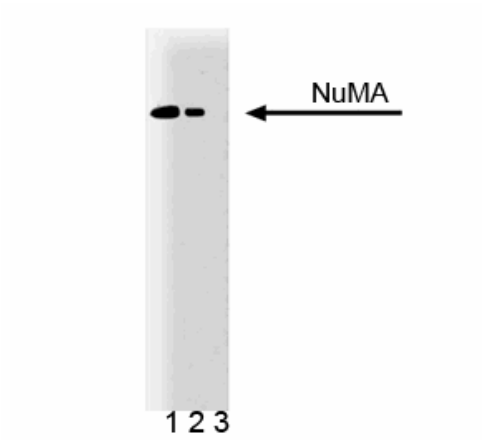
Purified Mouse Anti- NuMA

Product Information

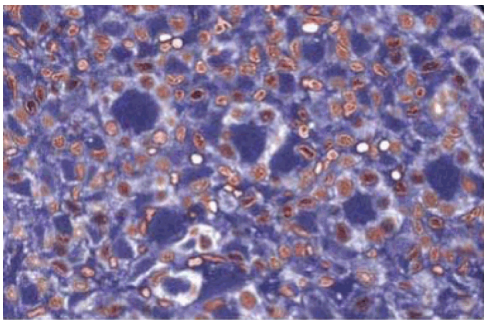
Material Number:	**610562**
Size:	150 µg
Concentration:	250 µg/ml
Clone:	22/NuMA
Immunogen:	Human NuMA aa. 10-189
Isotype:	Mouse IgM
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Chicken, Dog,
Target MW:	238-290 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

NuMA (**Nu**clear **M**itotic **A**pparatus protein) is a 2115 amino acid protein with a coiled-coil structure similar to that of myosins and intermediate filaments. Indirect immunofluorescence assays indicate that NuMA's localization is very dynamic. During interphase, NuMA is in the nucleus and during mitosis it moves to the polar regions of the mitotic spindle. NuMA is a very abundant phosphoprotein and antibodies to this protein are often found in patients with autoimmune diseases. Although NuMA is thought to be a structural component of the nucleus, the precise cellular function for this protein is still unknown.



Western blot analysis of NuMA on a HeLa cell lysate (Human cervical epitheloid carcinoma; ATCC CCL-2). *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti- NuMA antibody. NuMA has been reported to have a calculated molecular weight of 238 kDa, but may be observed to be migrating in a range between 238-290 kDa in HeLa whole cell extracts*



Immunofluorescence staining for NuMA in rabbit kidney.

Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development

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Immunoprecipitation	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Elbi C, Misteli T, Hager GL. Recruitment of dioxin receptor to active transcription sites. *Mol Biol Cell.* 2002; 13(6):2001-2015. (Biology: Immunofluorescence)

Munnia A, Schutz N, Romeike BF, et al. Expression, cellular distribution and protein binding of the glioma amplified sequence (GAS41), a highly conserved putative transcription factor. *Oncogene.* 2001; 20(35):4853-4863. (Biology: Immunofluorescence)

Steen RL, Cubizolles F, Le Guellec K, Collas P. A kinase-anchoring protein (AKAP)95 recruits human chromosome-associated protein (hCAP)-D2/Eg7 for chromosome condensation in mitotic extract. *J Cell Biol.* 2000; 149(3):531-536. (Biology: Immunofluorescence)

Yang CH, Lambie EJ, Snyder M. NuMA: an unusually long coiled-coil related protein in the mammalian nucleus. *J Cell Biol.* 1992; 116(6):1303-1317. (Biology)