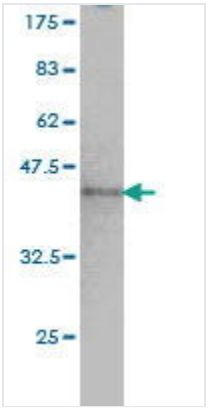
NUMA1 Antibody – Mouse Monoclonal

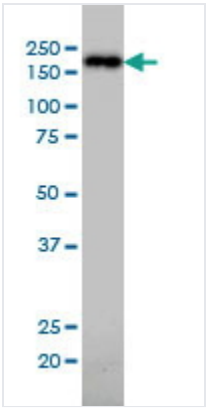
PRODUCT OVERVIEW

Product Name	NUMA1, Monoclonal Antibody
Full Product Name	NUMA1 (Nuclear Mitotic Apparatus Protein 1, NuMA Protein, SP-H Antigen, NUMA) APC
Product Gene Name	anti-NUMA1 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1C5
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human NUMA1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product centrifuge the original vial prior to removing the cap.
Molecular Weight	109,279 Da
OMIM	164009
3D Structure	ModBase 3D Structure for Q14980
Immunogen	Partial recombinant corresponding to aa200-307 from human NUMA1 (NP_006176) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SPASPMGDILQTPQFQMRRLKKQLADERSNRDELELELAENRKLLTEKDAQIAMMQQRIDRLALLNEKQAASPLEPKELEELRDKNESLTMRLHETLKQC
Conjugate	APC
Product Categories/Family for anti-NUMA1 antibody	Antibodies; Nuclear Proteins
Applications Tested/Suitable for anti-NUMA1 antibody	ELISA (EIA), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-NUMA1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NUMA1 antibody	NuMA (nuclear mitotic apparatus) is a long coil-coiled protein that plays a role in the interphase and mitosis phases of a cell cycle. In interphase, it has hypothesized to play a structural role in the nucleoskeleton that may be important in nuclear organization and functions. During mitosis, it is associated spindle microtubule organization and chromosome positioning. Therefore, this antibody is useful as a cell cycle marker.

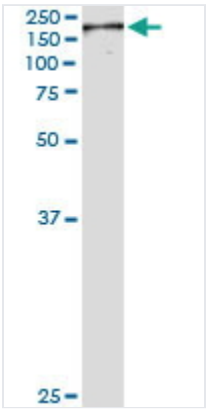
Other Notes	Small volumes of anti-NUMA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and add ice fee may apply.
Searchable Terms for NUMA1 purchase	MBS6137985 is an antibody targeting NUMA1. Also known as NUMA1 (Nuclear Mitotic Apparatus Protein 1, NuMA Protein, SP-H Antigen, NUMA) AP Reactive in Human. Host: Mouse.



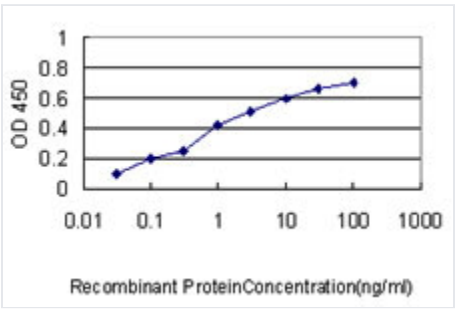
Western Blot (WB) of anti-NUMA1 antibody
Western Blot detection against Immunogen (37.51kD).



Western Blot (WB) of anti-NUMA1 antibody
NUMA1 monoclonal antibody. Western Blot analysis of NUMA1 expression in K-562



Immunoprecipitation (IP) of anti-NUMA1 antibody
Immunoprecipitation of NUMA1 transfected lysate using NUMA1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with NUMA1 rabbit polyclonal antibody.



Testing Data of anti-NUMA1 antibody
Detection limit for recombinant GST tagged NUMA1 is ~0.1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NUMA1. It may not necessarily be applicable to this product.

NCBI GI #	71361682
NCBI GeneID	4926
NCBI Accession #	NP_006176
UniProt Primary Accession #	Q14980
UniProt Secondary Accession #	Q14981; Q9BTE9; H0YH75
UniProt Related Accession #	Q14980
GenBank Nucleotide #	NM_006185
NCBI Official Full Name	nuclear mitotic apparatus protein 1 isoform 1
NCBI Official Synonym Full Names	nuclear mitotic apparatus protein 1
NCBI Official Symbol	NUMA1

NCBI Official Synonym Symbols	NUMA; NMP-22
UniProt Protein Name	Nuclear mitotic apparatus protein 1
UniProt Synonym Protein Names	SP-H antigen
Protein Family	Nuclear mitotic apparatus protein
UniProt Gene Name	NUMA1
UniProt Synonym Gene Names	NUMA; NuMA protein
UniProt Entry Name	NUMA1_HUMAN
NCBI Protein Information	nuclear mitotic apparatus protein 1; SP-H antigen; centrophilin stabilizes mitotic spindle in mitotic cells; nuclear matrix protein-22; structural nuclear protein
UniProt Comments for NUMA1	NuMA-1: a coiled-coil nuclear protein that is required to establish and maintain mammalian spindle poles. 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. Two human splice-variant isoforms have been described. Protein type: Cell cycle regulation; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 11q13 Cellular Component: spindle pole; nuclear matrix; dendrite; chromosome; cytosol; nucleoplasm; Golgi membrane; cell soma; apical part of cell; spindle microtubule; cytoplasm; spindle; nucleus Molecular Function: protein binding; microtubule binding; structural molecule activity Biological Process: mitosis; meiotic cell cycle; establishment of mitotic spindle orientation; cell division; mitotic cell cycle; G2/M transition of mitotic cell cycle; nuclear organization and biogenesis Disease: Acute Promyelocytic Leukemia
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