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NUP133 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant NUP133.
Catalog # AT3136a

Specification

NUP133 Antibody (monoclonal) (M02) - Product Information

Application	**WB**
Primary Accession	Q8WUM0
Other Accession	NM_018230
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG**
Calculated MW	**128979**

NUP133 Antibody (monoclonal) (M02) - Additional Information

Gene ID 55746

Other Names
Nuclear pore complex protein Nup133, 133 kDa nucleoporin, Nucleoporin Nup133, NUP133

Target/Specificity
NUP133 (NP_060700, 1069 a.a. ~ 1155 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
NUP133 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

NUP133 Antibody (monoclonal) (M02) - Protocols

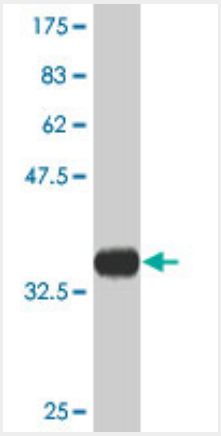
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

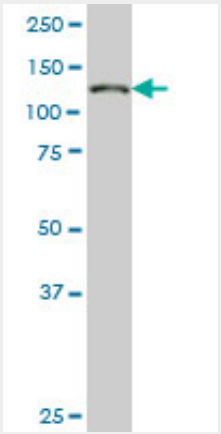
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NUP133 Antibody (monoclonal) (M02) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.31 KDa) .



NUP133 monoclonal antibody (M02), clone 4F6. Western Blot analysis of NUP133 expression in HeLa ((Cat # AT3136a)

NUP133 Antibody (monoclonal) (M02) - Background

The nuclear envelope creates distinct nuclear and cytoplasmic compartments in eukaryotic cells. It consists of two concentric membranes perforated by nuclear pores, large protein complexes that form aqueous channels to regulate the flow of macromolecules between the nucleus and the cytoplasm. These complexes are composed of at least 100 different polypeptide subunits, many of which belong to the nucleoporin family. The nucleoporin protein encoded by this gene displays evolutionarily conserved interactions with other nucleoporins. This protein, which localizes to both sides of the nuclear pore complex at interphase, remains associated with the complex during mitosis and is targeted at early stages to the reforming nuclear envelope. This protein also localizes to kinetochores of mitotic cells.

NUP133 Antibody (monoclonal) (M02) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the

Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.Architectural nucleoporins Nup157/170 and Nup133 are structurally related and descend from a second ancestral element. Whittle JR, et al. J Biol Chem, 2009 Oct 9. PMID 19674973.Structural and functional studies of Nup107/Nup133 interaction and its implications for the architecture of the nuclear pore complex. Boehmer T, et al. Mol Cell, 2008 Jun 20. PMID 18570875.Purification, crystallization and preliminary X-ray analysis of a Nup107-Nup133 heterodimeric nucleoporin complex. Boehmer T, et al. Acta Crystallogr Sect F Struct Biol Cryst Commun, 2007 Sep 1. PMID 17768364.