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NUP54 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM1830b

Specification

NUP54 Antibody - Product Information

Application	**IHC-P,E**
Primary Accession	Q7Z3B4
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1,Igκ**
Calculated MW	**55435**

NUP54 Antibody - Additional Information

Gene ID 53371

Other Names
Nucleoporin p54, 54 kDa nucleoporin, NUP54

Target/Specificity
This NUP54 Monoclonal antibody is generated from mouse immunized with NUP54 recombinant protein.

Dilution
IHC-P~~1:50~100

Format
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
NUP54 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

NUP54 Antibody - Protein Information

Name NUP54

Function Component of the nuclear pore complex, a complex required for the trafficking across the nuclear membrane.

Cellular Location
Nucleus, nuclear pore complex {ECO:0000250|UniProtKB:P70582}. Nucleus membrane

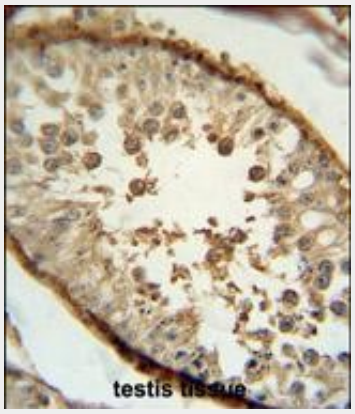
{ECO:0000250|UniProtKB:P70582}; Peripheral membrane protein {ECO:0000250|UniProtKB:P70582}; Cytoplasmic side {ECO:0000250|UniProtKB:P70582}. Nucleus membrane {ECO:0000250|UniProtKB:P70582}; Peripheral membrane protein {ECO:0000250|UniProtKB:P70582}; Nucleoplasmic side {ECO:0000250|UniProtKB:P70582}. Note=Biased towards cytoplasmic side Central region of the nuclear pore complex, within the transporter {ECO:0000250|UniProtKB:P70582}

NUP54 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NUP54 Antibody - Images



NUP54 Monoclonal Antibody (Cat. #AM1830b) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjµgation of the secondary antibody and DAB staining. This data demonstrates the use of the NUP54 Monoclonal Antibody for immunohistochemistry. Clinical relevance has not been evaluated.

NUP54 Antibody - 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. This gene encodes a member of the phe-gly (FG) repeat-containing nucleoporin subset.

NUP54 Antibody - References

Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.
The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene

Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.
Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.
Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.
Docking of HIV-1 Vpr to the nuclear envelope is mediated by the interaction with the nucleoporin hCG1. Le Rouzic E, et al. J Biol Chem, 2002 Nov 22. PMID 12228227.