

# NUP54 Antibody

Mouse Monoclonal Antibody (Mab)

Catalog # AM1830b

## Product Information

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<b>Application</b>	IHC-P, E
<b>Primary Accession</b>	<a href="#">Q7Z3B4</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG1,Igk
<b>Clone Names</b>	139CT1.1.5
<b>Calculated MW</b>	55435

## Additional Information

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<b>Gene ID</b>	53371
<b>Other Names</b>	Nucleoporin p54, 54 kDa nucleoporin, NUP54
<b>Target/Specificity</b>	This NUP54 Monoclonal antibody is generated from mouse immunized with NUP54 recombinant protein.
<b>Dilution</b>	IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	NUP54 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	NUP54
<b>Function</b>	Component of the nuclear pore complex, a complex required for the trafficking across the nuclear membrane.
<b>Cellular Location</b>	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}

## Background

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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.

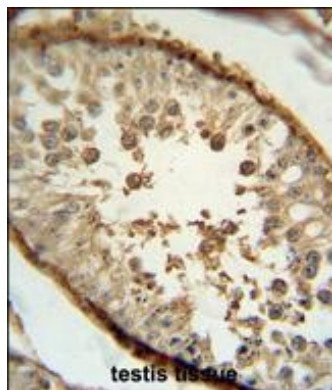
## References

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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.

## Images

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NUP54 Monoclonal Antibody (Cat. #AM1830b) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.