NUP54 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NUP54, Polyclonal Antibody
Full Product Name	NUP54 Polyclonal Conjugated Antibody
Product Gene Name	anti-NUP54 antibody
Product Synonym Names	NUP54 Conjugated Antibody; NUP54; nucleoporin 54
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	55 kDa
OMIM	607607
3D Structure	ModBase 3D Structure for Q7Z3B4
Immunogen	Recombinant fusion protein of human NUP54 (NP_059122.2).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-NUP54 antibody	Most Applications
Application Notes for anti-NUP54 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-NUP54 antibody	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. Multiple alternatively spliced transcript variants have been found for this gene.
Other Notes	Small volumes of anti-NUP54 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, 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 additional dry ice fee may apply.

Searchable Terms for NUP54 purchase	MBS9440572 is an antibody targeting NUP54. Also known as NUP54 Polyclonal Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NUP54. It may not necessarily be applicable to this product.

NCBI GI #	26051237
NCBI GeneID	53371
NCBI Accession #	NP_059122.2
UniProt Primary Accession #	Q7Z3B4
UniProt Related Accession #	Q7Z3B4
GenBank Nucleotide #	NM_001278603.1
NCBI Official Full Name	nucleoporin p54 isoform 1
NCBI Official Synonym Full Names	nucleoporin 54
NCBI Official Symbol	NUP54
UniProt Protein Name	Nucleoporin p54
UniProt Synonym Protein Names	54 kDa nucleoporin
Protein Family	Nuclear pore complex protein
UniProt Gene Name	NUP54
UniProt Entry Name	NUP54_HUMAN
NCBI Protein Information	nucleoporin p54
Research Articles on NUP54	**1.** Mutations within the footprinted region of Nup54 polymers blocked both polymerization and binding by the PRn poly-dipeptide. 1,6-hexanediol melted FG domain polymers in vitro and reversed PRn-mediated enhancement of the nuclear pore permeability barrier, suggesting that toxicity of the PRn poly-dipeptide results in part from its ability to lock the FG repeats of nuclear pore proteins in the polymerized state.
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