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NUP54 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP1924b

Specification

NUP54 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q7Z3B4

NUP54 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 53371

Other Names
Nucleoporin p54, 54 kDa nucleoporin, NUP54

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1924b was selected from the Center region of human NUP54. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NUP54 Antibody (Center) Blocking Peptide - 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}

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NUP54 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

NUP54 Antibody (Center) Blocking Peptide - Images

NUP54 Antibody (Center) Blocking Peptide - 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. NUP54 is a member of the phe-gly (FG) repeat-containing nucleoporin subset.

NUP54 Antibody (Center) Blocking Peptide - References

Stoffler, D., et al., Curr. Opin. Cell Biol. 11(3):391-401 (1999).Bodoor, K., et al., Biochem. Cell Biol. 77(4):321-329 (1999).Popov, S., et al., J. Biol. Chem. 273(21):13347-13352 (1998).Hu, T., et al., J. Cell Biol. 134(3):589-601 (1996).Finlay, D.R., et al., J. Cell Biol. 114(1):169-183 (1991).