

NUP54 Antibody (Center A315) Blocking Peptide
Synthetic peptide
Catalog # BP1924a**Specification**

NUP54 Antibody (Center A315) Blocking Peptide - Product InformationPrimary Accession [Q7Z3B4](#)**NUP54 Antibody (Center A315) 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 [AP1924a](/product/products/AP1924a) 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 A315) 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}

NUP54 Antibody (Center A315) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NUP54 Antibody (Center A315) Blocking Peptide - Images

NUP54 Antibody (Center A315) 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 A315) 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).