

NUP62 Antibody (C-term Y422) Blocking Peptide
Synthetic peptide
Catalog # BP7492b**Specification**

NUP62 Antibody (C-term Y422) Blocking Peptide - Product InformationPrimary Accession [P37198](#)**NUP62 Antibody (C-term Y422) Blocking Peptide - Additional Information**

Gene ID 23636

Other Names

Nuclear pore glycoprotein p62, 62 kDa nucleoporin, Nucleoporin Nup62, NUP62

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7492b](/products/AP7492b) was selected from the C-term region of human NUP62. 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.

NUP62 Antibody (C-term Y422) Blocking Peptide - Protein Information

Name NUP62

Function

Essential component of the nuclear pore complex (PubMed: [1915414](http://www.uniprot.org/citations/1915414)). The N-terminal is probably involved in nucleocytoplasmic transport (PubMed: [1915414](http://www.uniprot.org/citations/1915414)). The C-terminal is involved in protein-protein interaction probably via coiled-coil formation, promotes its association with centrosomes and may function in anchorage of p62 to the pore complex (PubMed: [1915414](http://www.uniprot.org/citations/1915414), PubMed: [24107630](http://www.uniprot.org/citations/24107630)). Plays a role in mitotic cell cycle progression by regulating centrosome segregation, centriole maturation and spindle orientation (PubMed: [24107630](http://www.uniprot.org/citations/24107630)). It might be involved in protein recruitment to the centrosome after nuclear breakdown (PubMed: [24107630](http://www.uniprot.org/citations/24107630))

target="_blank">24107630).

Cellular Location

Nucleus, nuclear pore complex. Cytoplasm, cytoskeleton, spindle pole. Nucleus envelope. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Central region of the nuclear pore, within the transporter (PubMed:1915414). During mitotic cell division, it associates with the poles of the mitotic spindle (PubMed:24107630)

NUP62 Antibody (C-term Y422) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NUP62 Antibody (C-term Y422) Blocking Peptide - Images

NUP62 Antibody (C-term Y422) Blocking Peptide - Background

NUP62 is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. Nucleoporins are the main components of the nuclear pore complex in eukaryotic cells. This protein is a member of the FG-repeat containing nucleoporins and is localized to the nuclear pore central plug. The protein associates with the importin alpha/beta complex which is involved in the import of proteins containing nuclear localization signals.

NUP62 Antibody (C-term Y422) Blocking Peptide - References

Stochaj,U., Banski,P. Exp. Cell Res. 312 (13), 2490-2499 (2006)Basel-Vanagaite,L., Muncher,L. Ann. Neurol. 60 (2), 214-222 (2006)Guan,T., Muller,S. Mol. Biol. Cell 6 (11), 1591-1603 (1995)