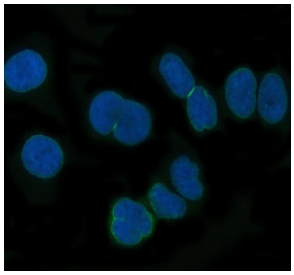
NUP62 Antibody / Nuclear Pore Complex Marker [clone 26N26] (FY13504)

Catalog No.	Formulation	Size
FY13504	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol	100 ul

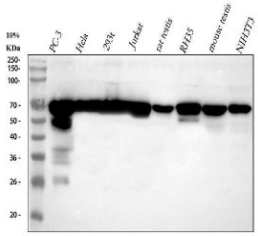
Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	26N26
Purity	Antigen chromatography
UniProt	P37198
Applications	Western blot: 1:500-1:1000 Immunofluorescence: 1:50
Limitations	This NUP62 Antibody / Nuclear Pore Complex Marker is available for research use only.



NUP62 Antibody Nuclear Pore Staining in HeLa Cells IF. Immunofluorescence staining of human HeLa cells with NUP62 Antibody / Nuclear Pore Complex Marker. Enzyme antigen retrieval was performed for 15 min, followed by blocking with 10% goat serum. The antibody was used at 1:50 overnight at 4oC, followed by a DyLight 488-conjugated goat anti-rabbit IgG secondary antibody at 1:500. Nuclei were counterstained with DAPI. NUP62 staining is observed at the nuclear periphery, consistent with its localization to nuclear pore complexes.



NUP62 Antibody in Human, Rat and Mouse WB. Western blot testing of human, rat and mouse samples with NUP62 Antibody / Nuclear Pore Complex Marker. Lane 1: PC-3; Lane 2: HeLa; Lane 3: 293T; Lane 4: Jurkat; Lane 5: rat testis; Lane 6: rat RH35; Lane 7: mouse testis; Lane 8: mouse NIH/3T3. Samples were separated by 5-20% SDS-PAGE under reducing conditions and the antibody was used at 1:500 overnight at 4oC. A prominent NUP62 band was observed at approximately 70 kDa across the tested samples, demonstrating detection in human, rat and mouse cells and tissues.

Description

NUP62 Antibody / Nuclear Pore Complex Marker detects nucleoporin 62 (NUP62), an FG-repeat-containing protein and core component of the nuclear pore complex (NPC). Nuclear pore complexes are large multiprotein assemblies embedded in the nuclear envelope that provide selective channels for the movement of proteins, RNA and other macromolecules between the nucleus and cytoplasm. NUP62 is associated with the central transport channel of the NPC and contributes to the selective permeability required for regulated nucleocytoplasmic transport.

NUP62 contains phenylalanine-glycine (FG) repeat sequences that interact with nuclear transport receptors as they move cargo through the nuclear pore. Together with other FG nucleoporins, NUP62 contributes to the permeability barrier that restricts passive movement of larger molecules while permitting receptor-mediated transport. NUP62 participates in a subcomplex with other nucleoporins, including NUP58 and NUP54, that helps form and organize the central channel of the nuclear pore complex.

Because of its integral association with the NPC, NUP62 is widely studied as a nuclear pore complex marker and as a component of the machinery controlling communication between nuclear and cytoplasmic compartments. NUP62 research is relevant to nuclear envelope organization, nuclear import and export, RNA trafficking, cell division and regulation of gene expression. Alterations involving nucleoporins and nuclear transport pathways are also investigated in cancer, neurological disease and other conditions associated with disrupted nuclear transport or nuclear pore function.

This recombinant rabbit monoclonal NUP62 Antibody has been validated by immunofluorescence in human HeLa cells and by Western blot across human, rat and mouse samples. Western blot testing includes human PC-3, HeLa, 293T and Jurkat cells, rat testis and RH35 cells, and mouse testis and NIH/3T3 cells. A prominent NUP62 band was observed at approximately 70 kDa across the tested samples. Immunofluorescence demonstrates NUP62 staining associated with the nuclear periphery in HeLa cells, consistent with its localization as a component of nuclear pore complexes.

NSJ Bioreagents supplies antibodies for research into nuclear organization, intracellular transport and cell signaling. A NUP62 Antibody can be used to investigate nuclear pore complex organization, NUP62 expression and mechanisms controlling nucleocytoplasmic transport.

For additional research on nucleoporin expression and nuclear pore biology, see our NUP62 Antibody / Nucleoporin 62 Antibody page.

Application Notes

Optimal dilution of the NUP62 Antibody / Nuclear Pore Complex Marker should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Nucleoporin 62 was used as the immunogen for the NUP62 antibody.

Storage

Store the NUP62 Antibody at -20oC for one year, or at 4oC for one month.

Alternate Names

NUP62 antibody, Nuclear Pore Complex Protein Nup62 antibody, Nucleoporin 62 antibody, Nuclear Pore Complex Marker antibody

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