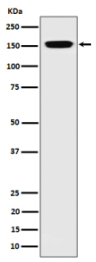
NUP155 Antibody / Nucleoporin 155 [clone 30N56] (FY12397)

Catalog No.	Formulation	Size
FY12397	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30N56
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	O75694
Applications	Western blot: 1:500-1:2000
Limitations	This NUP155 antibody is available for research use only.



Western blot analysis of NUP155 expression in human 293 cell lysate using NUP155 antibody. Predicted molecular weight ~155 kDa.

Description

NUP155 antibody recognizes nucleoporin 155, a major component of the nuclear pore complex encoded by the NUP155 gene. Nuclear pore complexes are large protein assemblies embedded in the nuclear envelope that regulate transport of molecules between the nucleus and cytoplasm. NUP155 contributes to the structural integrity of the pore and facilitates

trafficking of RNAs, proteins, and signaling molecules.

NUP155 antibody is commonly used in studies of nucleocytoplasmic transport and nuclear architecture. The protein is particularly important for maintaining nuclear envelope stability and selective transport of cargo. Defects in NUP155 impair nuclear pore complex assembly and disrupt gene regulation by altering nucleo cytoplasmic communication.

The antibody is suitable for western blotting, immunohistochemistry, immunofluorescence, and flow cytometry. In western blot assays, NUP155 antibody recognizes protein bands corresponding to the expected molecular weight. Immunohistochemistry shows localization at the nuclear envelope, while immunofluorescence provides fine resolution of subnuclear distribution. These applications make NUP155 antibody versatile for research in molecular biology and cell signaling.

Clinical research has linked NUP155 mutations to atrial fibrillation and sudden cardiac death. The connection underscores the importance of nuclear pore complexes beyond basic transport, showing that nuclear envelope proteins contribute to cardiac rhythm and function. By detecting NUP155, researchers can explore how mutations or altered expression influence disease progression.

Nucleoporins, including NUP155, are increasingly recognized as regulators of gene expression. Their roles extend to chromatin organization, DNA repair, and signal transduction. Dysregulation of nucleoporins has been linked to cancer and developmental disorders. NUP155 antibody provides a tool to investigate how nuclear pore function impacts diverse biological processes.

NUP155 antibody from NSJ Bioreagents provides reliable specificity for analyzing nuclear pore biology, disease pathogenesis, and cellular communication. It is a valuable reagent for laboratories studying nuclear transport and gene regulation.

Application Notes

Optimal dilution of the NUP155 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human NUP155 was used as the immunogen for the NUP155 antibody.

Storage

Store the NUP155 antibody at -20oC.

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