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Nucleoporin p62 Rabbit pAb

Catalog # AP99086

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P37198
Other Accession	P37198
Reactivity	Human, Mouse
Predicted	Rat, Pig, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53255
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Nucleoporin p62
Epitope Specificity	451-522/522
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the nucleoporin NSP1/NUP62 family.
SUBUNIT	Component of the p62 complex, a complex at least composed of NUP62, NUP54, and NUPL1 (By similarity). Interacts with C11orf73/Hikeshi.
Post-translational modifications	O-glycosylated. Contains about 10 N-acetylglucosamine side chain sites predicted for the entire protein, amongst which only one in the C-terminal.
DISEASE	Infantile striatonigral degeneration (SNDI) [MIM:271930]: Neurological disorder characterized by symmetrical degeneration of the caudate nucleus, putamen, and occasionally the globus pallidus, with little involvement of the rest of the brain. The clinical features include developmental regression, choreoathetosis, dystonia, spasticity, dysphagia, failure to thrive, nystagmus, optic atrophy, and mental retardation. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The nuclear pore complex 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. The protein encoded by this gene is a member of the FG-repeat containing nucleoporins and is localized to the nuclear pore central plug. This protein associates with the importin alpha/beta complex which is involved in the import of proteins containing nuclear localization signals. Multiple transcript variants of this gene encode a single protein isoform. [provided by RefSeq].

Additional Information

Gene ID	23636

Other Names	IBSN; SNDI; p62; D7Ertd649e; Nupc1; Np62; NUP62_HUMAN; NUP62; 62 kDa nucleoporin; Nucleoporin Nup62; NUP62_MOUSE; NUP62_RAT; nucleoporin 62; nucleoporin 62kDa; nuclear pore glycoprotein p62
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NUP62
Function	Essential component of the nuclear pore complex (PubMed: 1915414). The N-terminal is probably involved in nucleocytoplasmic transport (PubMed: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, PubMed:24107630). Plays a role in mitotic cell cycle progression by regulating centrosome segregation, centriole maturation and spindle orientation (PubMed:24107630). It might be involved in protein recruitment to the centrosome after nuclear breakdown (PubMed: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)

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