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NUP155 Antibody

Catalog # ASC10731

Product Information

Application	WB, E
Primary Accession	O75694
Other Accession	NP_705618, 24430149
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	155199
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	NUP155 antibody can be used for detection of NUP155 by Western blot at 0.5 - 1 □g/mL.

Additional Information

Gene ID	9631
Other Names	Nuclear pore complex protein Nup155, 155 kDa nucleoporin, Nucleoporin Nup155, NUP155, KIAA0791
Target/Specificity	NUP155;
Reconstitution & Storage	NUP155 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	NUP155 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NUP155
Synonyms	KIAA0791
Function	Essential component of nuclear pore complex. Could be essessential for embryogenesis. Nucleoporins may be involved both in binding and translocating proteins during nucleocytoplasmic transport.
Cellular Location	Nucleus, nuclear pore complex {ECO:0000250|UniProtKB:P37199}. Nucleus membrane {ECO:0000250|UniProtKB:P37199}; Peripheral membrane protein {ECO:0000250|UniProtKB:P37199}; Cytoplasmic side {ECO:0000250|UniProtKB:P37199}. Nucleus membrane

	{ECO:0000250|UniProtKB:P37199}; Peripheral membrane protein {ECO:0000250|UniProtKB:P37199}; Nucleoplasmic side {ECO:0000250|UniProtKB:P37199}. Note=In mitosis, assumes a diffuse cytoplasmic distribution probably as a monomer, before reversing back into a punctate nuclear surface localization at the end of mitosis {ECO:0000250|UniProtKB:P37199}
Tissue Location	Expressed in all tissues tested, including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

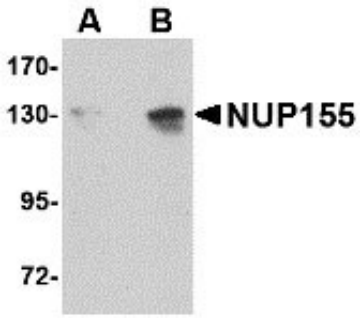
Background

NUP155 Antibody: The nuclear pore complex (NPC) is a protein assembly localized at the nuclear rim and mediates macromolecular transport between the nucleus and the cytoplasm. One protein in this assembly is the nucleoporin (NUP)-155, which is localized symmetrically to both the nucleoplasmic and cytoplasmic faces of the NPC. NUP155 has been reported to interact with both NUP35 and the mRNA export factor Gle1, but the functions of these interactions are still unknown. NUP155 has also been shown to be required for NPC assembly and nuclear envelope (NE) membrane fusion. NUP155 is recruited late in NE formation, suggesting that NUP155 defines an essential late step in NE assembly. NUP155 has recently been identified as an HIV dependency factor (HDF), suggesting that NUP155 may be an important drug target in HIV treatment. At least two isoforms of NUP155 are known to exist.

References

Tran EJ and Wente SR. Dynamic nuclear pore complex: life on the edge. Cell2006; 125:1041-53.
Radu A, Blobel G and Wozniak RW. Nup155 is a novel nuclear pore complex protein that contains neither repetitive sequence motifs nor reacts with WGA. J. Cell Biol.1993; 121:1-9.
Hawryluk-Gara LA, Shibuya EK, and Wozniak RW. Vertebrate Nup53 interacts with the nuclear lamina and is required for the assembly of a Nup93-containing complex. Mol. Biol. Cell2005; 16:2382-94.
Rayala HJ, Kendirgi F, Barry DM, et al. The mRNA export factor Gle1 interacts with the nuclear pore complex protein Nup155. Mol. Cell Proteomics2004; 3:145-55.

Images



Western blot analysis of NUP155 in P815 cell lysate with NUP155 antibody at (A) 0.5 and (B) 1 µg/mL.