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NUP160 Antibody

Catalog # ASC10732

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q12769
Other Accession	EAW67881, 119588287
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	162121
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	NUP160 antibody can be used for detection of NUP160 by Western blot at 0.5 - 1 □g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 □g/mL. For immunofluorescence start at 20 □g/mL.

Additional Information

Gene ID	23279
Other Names	Nuclear pore complex protein Nup160, 160 kDa nucleoporin, Nucleoporin Nup160, NUP160, KIAA0197, NUP120
Target/Specificity	NUP160;
Reconstitution & Storage	NUP160 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	NUP160 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NUP160
Synonyms	KIAA0197, NUP120
Function	Functions as a component of the nuclear pore complex (NPC) (PubMed:11564755, PubMed:11684705). Involved in poly(A)+ RNA transport.
Cellular Location	Nucleus, nuclear pore complex

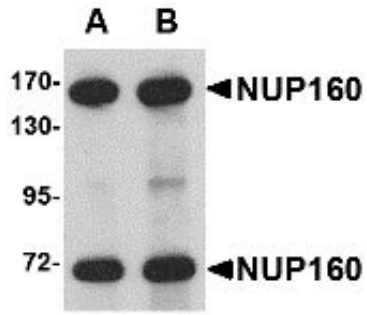
Background

NUP160 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. The mammalian nucleoporin (NUP)-160 is part of the hetero-oligomeric complex that also contains NUP107, NUP133, NUP96, and mammalian homolog of yeast sec13p. While the majority of the NUP107-160 nuclear pore sub-complex localizes to the nuclear pore, a small fraction is observed at kinetochores and pro-metaphase spindle poles in mitotic cells in association with proteins such as Mad1, Mad2, Bub3 and Cdc20. Immunodepletion of the NUP107-160 complex resulted in defective spindle assembly indicating that it has multiple functions. NUP160 has recently been identified as an HIV dependency factor (HDF), suggesting that NUP160 may be an important drug target in HIV treatment. Multiple isoforms of NUP160 are known to exist.

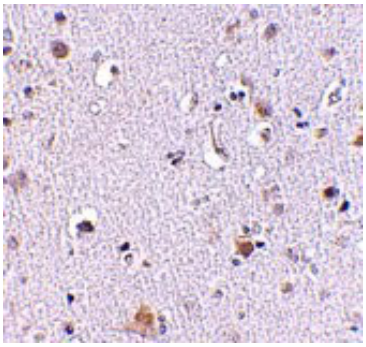
References

Tran EJ and Wente SR. Dynamic nuclear pore complex: life on the edge. Cell2006; 125:1041-53.
Boehmer T, Enninga J, Dales S, et al. Depletion of a single nucleoporin, Nup107, prevents the assembly of a subset of nucleoporins into the nuclear pore complex. Proc. Natl. Acad. Sci. USA2003; 100:981-5.
Orjalo AV, Arnaoutov A, Shen Z, et al. The Nup107-160 nucleoporin complex is required for correct bipolar spindle assembly. Mol. Bio. Cell2006; 17:3806-18.
Brass AL, Dykxhoorn DM, Benita Y, et al. Identification of host proteins required for HIV infection through a functional genomic screen. Science2008; 319:921-6.

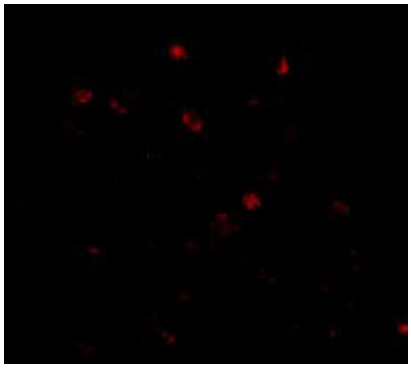
Images



Western blot analysis of NUP160 in rat brain tissue lysate with NUP160 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunohistochemistry of NUP160 in human brain tissue with NUP160 antibody at 2.5 µg/mL.



Immunofluorescence of NUP160 in Human Brain cells with NUP160 antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.