

NUP160 Antibody

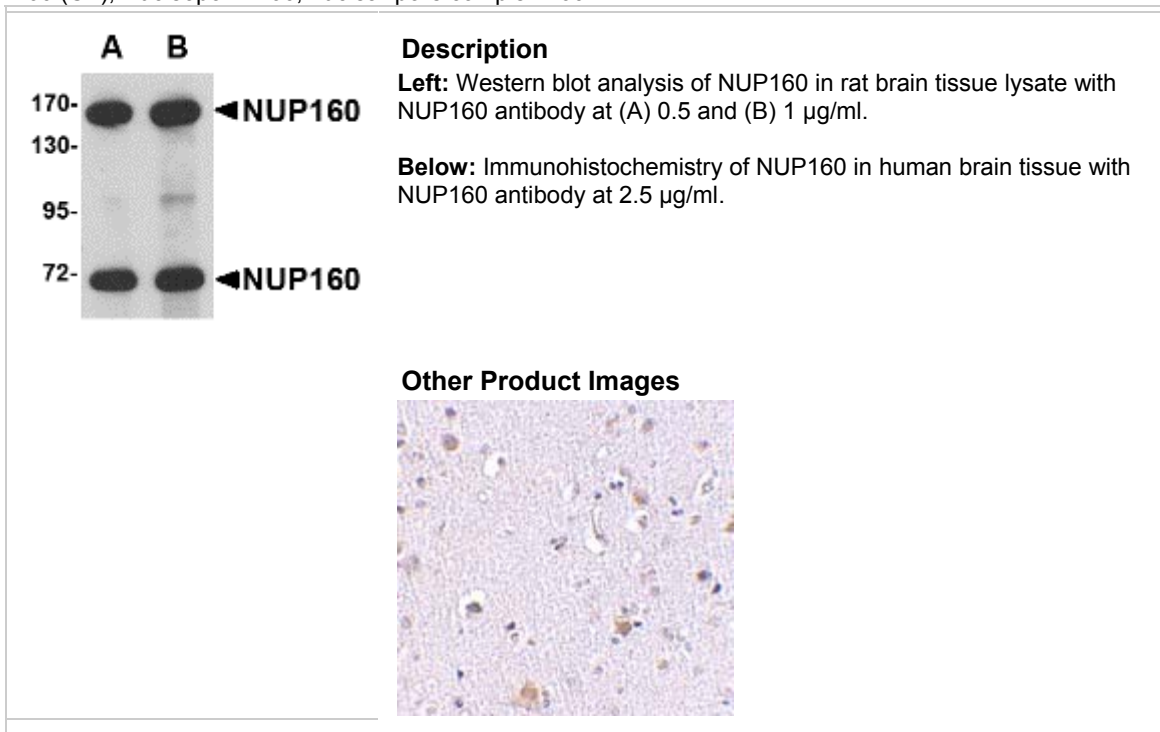
HOM-4707

Background

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.

Additional Names

NUP160 (CT), Nucleoporin 160, nuclear pore complex 160



Source

NUP160 antibody was raised against a 14 amino acid peptide from near the carboxy terminus of human NUP160.

Purification

Affinity chromatography purified via peptide column

Clonality / Clone

This is a polyclonal antibody.

Host

NUP160 antibody was raised in rabbit.

Please use anti-rabbit secondary antibodies.

Application

NUP160 antibody can be used for detection of NUP160 by Western blot at 0.5 – 1 µg/ml.

Tested Application

E, WB, IHC

Buffer

Antibody is supplied in PBS containing 0.02% sodium azide.

Blocking Peptide

NUP160 Peptide (contact Zyagen for availability)

Storage

NUP160 antibody can be stored at 4°C, stable for 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.

Positive Control

A549 Cell Lysate (contact Zyagen for availability)

Species Reactivity

H, M, R

Protein GI Number

119588287

Protein Accession Number

EAW67881

Short Description

(CT) Nucleoporin 160

References

1. Tran EJ and Wenthe SR. Dynamic nuclear pore complex: life on the edge. *Cell* 2006; 125:1041-53.
2. 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. USA* 2003; 100:981-5.
3. Orjalo AV, Arnautov A, Shen Z, et al. The Nup107-160 nucleoporin complex is required for correct bipolar spindle assembly. *Mol. Bio. Cell* 2006; 17:3806-18.
4. Brass AL, Dykxhoorn DM, Benita Y, et al. Identification of host proteins required for HIV infection through a functional genomic screen. *Science* 2008; 319:921-6.