

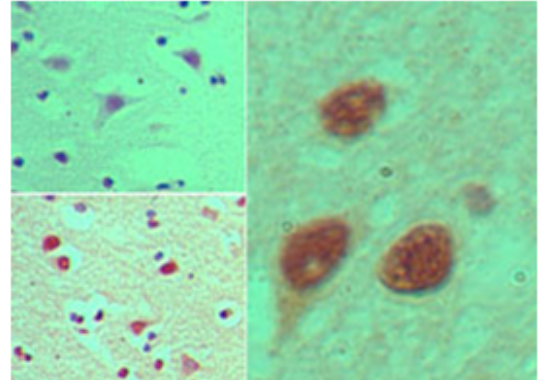
Polyclonal Antibody to NUP35 (280-330) - Purified

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| Alternate names: | 35 kDa nucleoporin, MP44, Mitotic phosphoprotein 44, NUP53, Nuclear pore complex protein Nup53, Nucleoporin NUP53, Nucleoporin Nup35 |
| Catalog No.: | AP22066PU-N |
| Quantity: | 0.1 mg |
| Concentration: | 0.5 mg/ml |
| Background: | Nucleoporin Nup35, or Mitotic phosphoprotein 44, is a nuclear protein known to be present on the nuclear pore complex and is tightly associated with the nuclear membrane and lamina. This RNA-associated protein belongs to the Nup53 family and has a MPPN (mitotic phosphoprotein N' end) domain. It has a small number of scattered phenylalanine-glycine repeats, but not the large domains seen in other nucleoporins. Though the exact function of NUP35 is yet to be revealed, it may function as a component of the nuclear pore complex (NPC) which are collectively referred to as nucleoporins (NUPs). It also may play the role of both NPC structural components and of docking or interaction partners for transiently associated nuclear transport factors, and may also play an important part in the association of MAD1, a transcriptional repressor with the NPC. NUP35 is widely expressed in most of the tissues. |
| Uniprot ID: | Q8NFH5 |
| NCBI: | NP_612142.2 |
| GeneID: | 129401 |
| Host: | Rabbit |
| Immunogen: | Amino acids 280-330 of human NUP35 Remarks: The amino acid sequence used as immunogen is 100% homologous in human, rat, mouse, cow, chimpanzee, monkey and dog, 93% homologous in opossum and chicken and 81% homologous in zebrafish. |
| Format: | State: Liquid Ig fraction Purification: Protein A chromatography Buffer System: PBS containing 0.05% BSA and 0.05% sodium azide |
| Applications: | Immunohistochemistry on paraffin sections: 5 µg/ml Western blot: 1-3 µg/ml. Recommended positive control: Liver lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody detects NUP35. |
| Species Reactivity: | Tested: Chimpanzee, Cow, Dog, Human, New World monkey, Mouse Expected from sequence similarity: Chicken, Opossum, Zebrafish |

Storage: Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: 1. Cronshaw, JM. et al. J. Cell Biol. 158:915-927 (2002).
2. Hawryluk-Gara, LA. et al. Mol. Biol. Cell. 16:2382-2394 (2005).
3. Dephoure, N. et al. Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767 (2008).

Pictures: Immunohistochemical analysis of NUP35 in formalin-fixed, paraffin-embedded human brain tissue using an isotype control (top left) and AP22066PU-N (bottom left, right) at 5 µg/ml.



Western blot analysis of NUP35 in human liver lysate in the 1) absence and 2) presence of immunizing peptide, 3) mouse brain lysate and 4) rat brain lysate using AP22066PU-N at 2 µg/ml, 2 µg/ml, 1 µg/ml and 1 µg/ml respectively. Goat anti-rabbit Ig HRP secondary antibody and ECL substrate solution were used for this test.

