

NUP50 Antibody

Rabbit mAb Catalog # AP92920

Product Information

Application WB, IF, ICC Primary Accession Q9UKX7

Reactivity Rat, Human, Mouse

Clonality Monoclonal

Other Names NPAP60; NPAP60L; Nucleoporin 50kDa; Nup50;

IsotypeRabbit IgGHostRabbitCalculated MW50144

Additional Information

Dilution WB 1:500~1:2000 ICC/IF 1:50~1:200

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human NUP50

Description Component of the nuclear pore complex that has a direct role in nuclear

protein import. Actively displaces NLSs from importin-alpha, and facilitates disassembly of the importin-alpha:beta-cargo complex and importin

recycling.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

Protein Information

Name NUP50

Synonyms NPAP60L

Function Component of the nuclear pore complex that has a direct role in nuclear

protein import (PubMed: 20016008). Actively displaces NLSs from

importin-alpha, and facilitates disassembly of the importin- alpha:beta-cargo complex and importin recycling (PubMed:20016008). Interacts with regulatory proteins of cell cycle progression including CDKN1B (By similarity). This interaction is required for correct intracellular transport and degradation of

CDKN1B (By similarity).

Cellular Location Nucleus, nuclear pore complex. Nucleus membrane

{ECO:0000250|UniProtKB:O08587}; Peripheral membrane protein

{ECO:0000250 | UniProtKB:008587}; Nucleoplasmic side

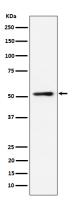
{ECO:0000250 | UniProtKB:O08587}. Note=Localizes to the nucleoplasmic fibrils of the nuclear pore complex (By similarity). Dissociates from the NPC

structure early during prophase of mitosis (PubMed:12802065) Associates with the newly formed nuclear membrane during telophase (PubMed:12802065). In the testis, the localization changes during germ cell differentiation from the nuclear surface in spermatocytes to the whole nucleus (interior) in spermatids and back to the nuclear surface in spermatozoa (By similarity). {ECO:0000250 | UniProtKB:008587, ECO:0000269 | PubMed:12802065}

Tissue Location

Ubiquitous. Highest levels in testis, peripheral blood leukocytes and fetal liver

Images



Western blot analysis of NUP50 expression in HeLa cell lysate.

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