Rabbit anti-Human NUP50 Polyclonal Antibody | anti-NUP50 antibody

Anti-NUP50 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256245	**Rabbit**	**Human**	**Immunofluorescence, Immunocytochemistry, Immunohistochemistry**

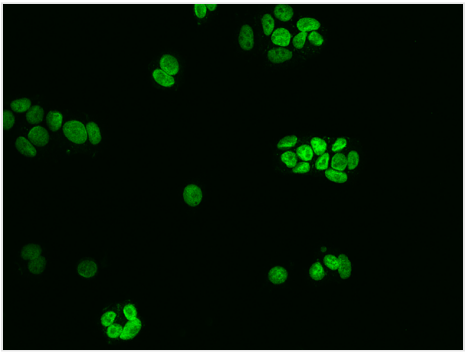
PRODUCT SYNONYMS

NUP50; Polyclonal Antibody; Anti-NUP50 Antibody; Rabbit Polyclonal; NUP50 Antibody; Rabbit PAb; Antigen Affinity Purified; nucleoporin 50kDa; Anti-CTA-268H5.7 Antibody; Anti-NPAP60 Antibody; Anti-NPAP60L Antibody; anti-NUP50 antibody

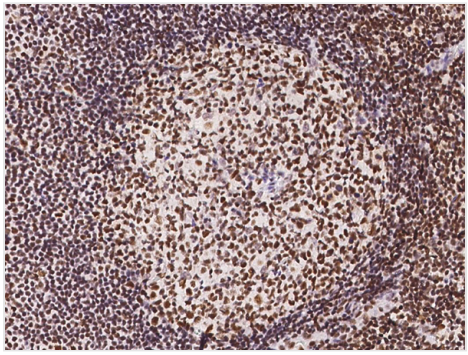
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human NUP50
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-NUP50 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	E Coli-derived Human NUP50 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human NUP50 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

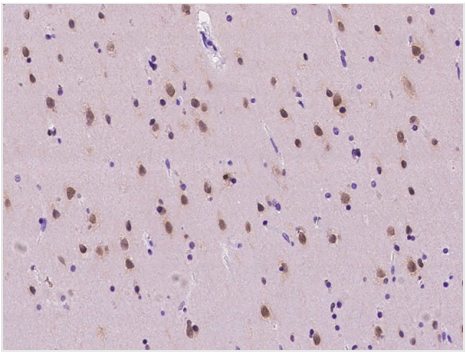
IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of NUP50 in MCF7 cells. Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-Human NUP50 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Nucleus.



IHC (Immunohiostchemistry)
Immunochemical staining of human NUP50 in human lymph node with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)
Immunochemical staining of human NUP50 in human brain with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-NUP50 antibody	Nup50 is a nucleoplasmically oriented component of the nuclear pore complex with a role in protein export. Npap60 (Nup50) is a nucleoporin that binds directly to importin alpha. In humans, there are two Npap60 isoforms: the long (Npap60L) and short (Npap60S) forms. Nucleoporin 50 kDa (NUP50), a component of the nuclear pore complex, is highly expressed in male germ cells. NUP50 plays an essential role in the survival of primordial germ cells (PGCs) during embryonic development. Nup50 is a mobile Nup with a pronounced presence both at the NPC and in the nucleoplasm that can move between these different localizations. Strikingly, the dynamic behavior of Nup50 in both locations is dependent on active transcription by RNA polymerase II and requires the N-terminal half of the protein, which contains importin alpha-and Nup153-binding domains.
References	Park E, et al. (2016) Nup50 is necessary for the survival of primordial germ cells in mouse embryos. Reproduction 151 (1): 51-58.Ogawa Y, et al. (2010) Two isoforms of npap60 (nup50) differentially regulate nuclear protein import. Mol Biol Cell 21 (4): 630-638.Buchwalter AL, et al. (2014) Nup50 is required for cell differentiation and exhibits transcription-dependent dynamics. Mol Biol Cell 25 (16): 2472-2484.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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