

Rabbit anti-Human, Rat NUP133 Polyclonal Antibody | anti-NUP133 antibody

Anti-NUP133 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127290	Rabbit	Human, Rat	Western Blot, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

NUP133; Polyclonal Antibody; Anti-NUP133 Antibody Picoband; Zinc finger protein Helios; cytoskeleton associated protein 5; Cytoskeleton-associated protein 5; Colonic and hepatic tumor overexpressed gene protein; Ch-TOG; CKAP5; KIAA0097; anti-NUP133 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Overexpressed in hepatomas and colonic tumors. Also Expressed in skeletal muscle, brain, heart, placenta, lung, liver, kidney and pancreas. Expression is elevated in the brain; Highly expressed in the Purkinje cell bodies of the cerebellum.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NUP133 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Immunogen	E coli-derived human NUP133 recombinant protein (Position: Q228-I1156).
Subcellular Localization	Centrosome. Spindle pole. Spindle. Kinetochore
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Binds to the plus end of microtubules and regulates microtubule dynamics and microtubule organization. Acts as processive microtubule polymerase. Promotes cytoplasmic microtubule nucleation and elongation. Plays a major role in organizing spindle poles. In spindle formation protects kinetochore microtubules from depolymerization by KIF2C and has an essential role in centrosomal microtubule assembly independently of KIF2C activity. Contributes to centrosome integrity. Acts as component of the TACC3/ch-TOG/clathrin complex proposed to contribute to stabilization of kinetochore fibers of the mitotic spindle by acting as inter-microtubule bridge. The TACC3/ch-TOG/clathrin complex is required for the maintenance of kinetochore fiber tension. Enhances the strength of NDC80 complex-mediated kinetochore-tip microtubule attachments.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 3. IF analysis of NUP133 using anti-NUP133 antibody (AAA127290) and anti-Beta Tubulin antibody (M01857-3).NUP133 was detected in immunocytochemical section of C6 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-NUP133 Antibody (AAA127290) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of NUP133 using anti-NUP133 antibody (AAA127290).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human 293T whole cell lysates,Lane 4: human K562 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NUP133 antigen affinity purified polyclonal antibody (#AAA127290) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NUP133 at approximately 130 kDa. The expected band size for NUP133 is at 130 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of NUP133 using anti-NUP133 antibody (AAA127290) and anti-Beta Tubulin antibody (M01857-3).NUP133 was detected in immunocytochemical section of A549 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-NUP133 Antibody (AAA127290) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG and Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-NUP133 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-NUP133 antibody	Primary Antibodies; Microbiology
References	1. Belgareh, N., Rabut, G., Bai, S. W., van Overbeek, M., Beaudouin, J., Daigle, N., Zatsepina, O. V., Pasteau, F., Labas, V., Fromont-Racine, M., Ellenberg, J., Doye, V. An evolutionarily conserved NPC subcomplex, which redistributes in part to kinetochores in mammalian cells. J. Cell. Biol. 154: 1147-1160, 2001. 2. Braun, D. A., Lovric, S., Schapiro, D., Schneider, R., Marquez, J., Asif, M., Hussain, M. S., Daga, A., Widneier, E., Rao, J., Ashraf, S., Tan, W., and 46 others. Mutations in multiple components of the nuclear pore complex cause nephrotic syndrome. J. Clin. Invest. 128: 4313-4328, 2018. 3. Fujita, A., Tsukaguchi, H., Koshimizu, E., Nakazato, H., Itoh, K., Kuraoka, S., Komohara, Y., Shiina, M., Nakamura, S., Kitajima, M., Tsurusaki, Y., Miyatake, S., Ogata, K., Iijima, K., Matsumoto, N., Miyake, N. Homozygous splicing mutation in NUP133 causes Galloway-Mowat syndrome. Ann. Neurol. 84: 814-828, 2018. Note: Erratum: Ann. Neurol. 85: 462-463, 2019.

NCBI AND UNIPROT INFORMATION

NCBI GI #	26051235
NCBI GeneID	55746
NCBI Accession #	NP_060700.2
NCBI GenBank Nucleotide #	NM_018230.2

UniProt Accession #	Q8WUM0 ; Q5T8N0 ; Q9H9W2 ; Q9NV71 ; Q9NVC4 ; B2RAZ8
Molecular Weight	128,979 Da
NCBI Official Full Name	nuclear pore complex protein Nup133
NCBI Official Synonym Full Names	nucleoporin 133kDa
NCBI Official Symbol	NUP133
NCBI Official Synonym Symbols	hNUP133
NCBI Protein Information	nuclear pore complex protein Nup133; nucleoporin 133kD; nucleoporin Nup133; 133 kDa nucleoporin
UniProt Protein Name	Nuclear pore complex protein Nup133
UniProt Gene Name	NUP133
UniProt Entry Name	NU133_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/nup133-antibody-western-blot-immunofluorescence-immunocytochemistry-elisa/127290>