Rabbit NUP43 Polyclonal Antibody | anti-NUP43 antibody

Anti-NUP43 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19968	**Rabbit**	**Human, Mouse, Rat**	**Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA**

PRODUCT SYNONYMS

NUP43; Polyclonal Antibody; Anti-NUP43 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-NUP43 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-NUP43 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human IHC: 2-5ug/ml, Human, Mouse, Rat ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human NUP43 recombinant protein (Position: D76-S380). Human NUP43 shares 93.8% amino acid (aa) sequence identity with mouse NUP43.
Subcellular Localization	Cytoplasm, Nucleus
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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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.

IMAGES

FCM (Flow Cytometry)

Figure 23. Flow Cytometry analysis of K562 cells using anti-NUP43 antibody (AAA19968).Overlay histogram showing K562 cells stained with AAA19968 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NUP43 Antibody (AAA19968, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

IF (Immunofluorescence)

Figure 22. IF analysis of NUP43 using anti-NUP43 antibody (AAA19968) and anti-Beta Tubulin antibody (M01857-3).NUP43 was detected in immunocytochemical section of A549 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-NUP43 Antibody (AAA19968) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight®488 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.

IHC (Immunohistochemistry)

Figure 21. IHC analysis of NUP43 using anti-NUP43 antibody (AAA19968).NUP43 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NUP43 Antibody (AAA19968) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NUP43 Antibody (AAA19968) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. 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Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP

ADDITIONAL INFORMATION

Related Product Information for anti-NUP43 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-NUP43 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Cronshaw, J. M., Krutchinsky, A. N., Zhang, W., Chait, B. T., Matunis, M. J. Proteomic analysis of the mammalian nuclear pore complex. J. Cell Biol. 158: 915-927, 2002. 2. Hartz, P. A. Personal Communication. Baltimore, Md. 12/7/2015.3. Loiodice, I., Alves, A., Rabut, G., van Overbeek, M., Ellenberg, J., Sibarita, J.-B., Doye, V. The entire Nup107-160 complex, including three new members, is targeted as one entity to kinetochores in mitosis. Molec. Biol. Cell 15: 3333-3344, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38605733
NCBI GeneID	348995
NCBI Accession #	NP_942590.1
NCBI GenBank Nucleotide #	NM_198887.1
UniProt Accession #	Q8NFH3; Q9H8S0; Q8TEA6
Molecular Weight	42,151 Da
NCBI Official Full Name	nucleoporin Nup43
NCBI Official Synonym Full Names	nucleoporin 43kDa
NCBI Official Symbol	NUP43
NCBI Official Synonym Symbols	p42; FLJ13287; bA350J20.1
NCBI Protein Information	nucleoporin Nup43; OTTHUMP00000237248; OTTHUMP00000237249; nup107-160 subcomplex subunit Nup43
UniProt Protein Name	Nucleoporin Nup43
UniProt Gene Name	**NUP43**
UniProt Entry Name	NUP43_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.

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