

Rabbit anti-Human RANBP2 Polyclonal Antibody | anti-RANBP2 antibody

Anti-RANBP2 Antibody Picoband

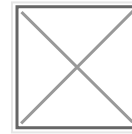
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19742	Rabbit	Human	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

RANBP2; Polyclonal Antibody; Anti-RANBP2 Antibody Picoband; E3 SUMO-protein ligase RanBP2; 6.3.2.-; 358 kDa nucleoporin; Nuclear pore complex protein Nup358; Nucleoporin Nup358; Ran-binding protein 2; RanBP2; p270; NUP358; anti-RANBP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Higher expression in skeletal muscle and heart and to a lesser extent in liver, brain, placenta, lung, kidney and pancreas.
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-RANBP2 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(Paraffin-embedded Section): 2-5ug/ml, Human 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 RANBP2 recombinant protein (Position: N906-D2744).
Subcellular Localization	Nucleus, Nucleus membrane, Nucleus, nuclear pore complex, Detected in diffuse and discrete intranuclear foci (PubMed:11839768). Cytoplasmic filaments (PubMed:7775481).
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	E3 SUMO-protein ligase which facilitates SUMO1 and SUMO2 conjugation by UBE2I. Involved in transport factor (Ran-GTP, karyopherin)-mediated protein import via the F-G repeat-containing domain which acts as a docking site for substrates. Binds single- stranded RNA (in vitro). May bind DNA. Component of the nuclear export pathway. Specific docking site for the nuclear export factor exportin-1. Sumoylates PML at 'Lys-490' which is essential for the proper assembly of PML-NB.
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 8. IF analysis of RANBP2 using anti-RANBP2 antibody (AAA19742). RANBP2 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RANBP2 Antibody (AAA19742) 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-RANBP2 Antibody (AAA19742) 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-RANBP2 Antibody (AAA19742) 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-RANBP2 Antibody (AAA19742) 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-RANBP2 Antibody (AAA19742) 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 (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-RANBP2 antigen affinity purified polyclonal antibody (#AAA19742) 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 RANBP2 at approximately 358 kDa. The expected band size for RANBP2 is at 358 kDa.

Related Product Information for anti-RANBP2 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-RANBP2 antibody	Primary Antibodies ; Cell Biology ; Cell Cycle ; Cell Division ; DNA/RNA ; Epigenetics and Nuclear Signaling ; Nuclear Import/Export ; Proteasome/Ubiquitin ; Protein Trafficking ; Proteolysis/Ubiquitin ; RNA Processing ; Signal Transduction ; Spindle ; Ubiquitin & Ubi
References	1. Beddow AL, Richards SA, Orem NR, Macara IG (Apr 1995). "The Ran/TC4 GTPase-binding domain: identification by expression cloning and characterization of a conserved sequence motif". Proceedings of the National Academy of Sciences of the United States of America. 92 (8): 3328-32.2. Yaseen NR, Blobel G (Sep 1999). "GTP hydrolysis links initiation and termination of nuclear import on the nucleoporin nup358". The Journal of Biological Chemistry. 274 (37): 26493-502.

NCBI GI #	150418007
NCBI GeneID	5903

NCBI Accession #	NP_006258.3
NCBI GenBank Nucleotide #	NM_006267.4
UniProt Accession #	P49792 ; Q13074 ; Q15280 ; Q53TE2 ; Q59FH7
Molecular Weight	358,199 Da
NCBI Official Full Name	E3 SUMO-protein ligase RanBP2
NCBI Official Synonym Full Names	RAN binding protein 2
NCBI Official Symbol	RANBP2
NCBI Official Synonym Symbols	ANE1; TRP1; TRP2; ADANE; IIAE3; NUP358
NCBI Protein Information	E3 SUMO-protein ligase RanBP2; P270; nucleoporin 358; nucleoporin Nup358; 358 kDa nucleoporin; ran-binding protein 2; transformation-related protein 2; nuclear pore complex protein Nup358; acute necrotizing encephalopathy 1 (autosomal dominant)
UniProt Protein Name	E3 SUMO-protein ligase RanBP2
UniProt Gene Name	RANBP2
UniProt Synonym Gene Names	NUP358; RanBP2
UniProt Entry Name	RBP2_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/ranbp2-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19742>