

Rabbit anti-Human RANBP1 Polyclonal Antibody | anti-RANBP1 antibody

Anti-RANBP1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127208	Rabbit	Human	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

RANBP1; Polyclonal Antibody; Anti-RANBP1 Antibody Picoband; Ran-specific GTPase-activating protein; Ran-binding protein 1; RanBP1; anti-RANBP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitously expressed. Present at highest levels in the brain, at high levels in the placenta and testis, at intermediate levels in the intestine, ovary, skeletal muscle and thymus and at lower levels in heart, kidney, liver, lung, pancreas, prostate and spleen. In the kidney, it is widely expressed in tubules, but sparsely expressed in the glomerulus (PubMed:24676636). Expression is significantly increased in renal biopsy specimens from idiopathic FSGS (PubMed:24676636). Overexpressed in many tumor types including breast, colorectal, endometrial, hepatic, kidney, lung, ovarian and pancreatic tumors.
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-RANBP1 antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human RANBP1 recombinant protein (Position: R57-K194).
Subcellular Localization	Cytoskeleton. Nucleus. Cell cortex. Bleb
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	Inhibits GTP exchange on Ran. Forms a Ran-GTP-RANBP1 trimeric complex. Increase GTP hydrolysis induced by the Ran GTPase activating protein RANGAP1. May act in an intracellular signaling pathway which may control the progression through the cell cycle by regulating the transport of protein and nucleic acids across the nuclear membrane.
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



IF (Immunofluorescence)

Figure 2. IF analysis of RANBP1 using anti-RANBP1 antibody (AAA127208).RANBP1 was detected in an immunocytochemical section of U2OS cells. 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-RANBP1 Antibody (AAA127208) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of RANBP1 using anti-RANBP1 antibody (AAA127208).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 293T whole cell lysates,Lane 2: human Daudi 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-RANBP1 antigen affinity purified polyclonal antibody (#AAA127208) 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 RANBP1 at approximately 25 kDa. The expected band size for RANBP1 is at 23 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RANBP1 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-RANBP1 antibody	Primary Antibodies; Cell Biology; Cell Cycle; Cell Division; DNA/RNA; Epigenetics and Nuclear Signaling; Nuclear Import/Export; Protein Trafficking; RNA Processing; Signal Transduction; Spindle
References	1. Hayashi N, Yokoyama N, Seki T, Azuma Y, Ohba T, Nishimoto T (August 1995). "RanBP1, a Ras-like nuclear G protein binding to Ran/TC4, inhibits RCC1 via Ran/TC4". Mol Gen Genet. 247 (6): 661-9.2. Kehlenbach RH, Dickmanns A, Kehlenbach A, Guan T, Gerace L (July 1999). "A Role for RanBP1 in the Release of CRM1 from the Nuclear Pore Complex in a Terminal Step of Nuclear Export". J Cell Biol. 145 (4): 645-57.

NCBI AND UNIPROT INFORMATION

NCBI GI #	520975477
NCBI GeneID	5902
NCBI Accession #	NP_001265568.1
NCBI GenBank Nucleotide #	NM_001278639.1
UniProt Accession #	P43487; Q53EY3
Molecular Weight	23,239 Da
NCBI Official Full Name	ran-specific GTPase-activating protein isoform 1
NCBI Official Synonym Full Names	RAN binding protein 1
NCBI Official Symbol	RANBP1
NCBI Official Synonym Symbols	HTF9A
NCBI Protein Information	ran-specific GTPase-activating protein; HpaII tiny fragments locus 9A
UniProt Protein Name	Ran-specific GTPase-activating protein
UniProt Gene Name	RANBP1
UniProt Synonym Gene Names	RanBP1
UniProt Entry Name	RANG_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/ranbp1-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/127208>