

Rabbit anti-Human RANBP3 Polyclonal Antibody | anti-RANBP3 antibody

Anti-RANBP3 Antibody, Rabbit Polyclonal

CATALOG # AAA256251	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

RANBP3; Polyclonal Antibody; Anti-RANBP3 Antibody; Rabbit Polyclonal; RANBP3 Antibody; Rabbit PAb; Antigen Affinity Purified; RAN binding protein 3; anti-RANBP3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human RANBP3
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-RANBP3 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human RANBP3 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human RANBP3 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 RANBP3 in U251MG cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human RANBP3 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 and cytoplasm.



IHC (Immunohistochemistry)

Immunochemical staining of human RANBP3 in human epididymis with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-RANBP3 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lane B: Jurkat Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 60 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-RANBP3 antibody	Ran-binding protein 3 (RanBP3) is a primarily nuclear Ran-binding protein that functions as an accessory factor in the Ran GTPase system. RanBP3 is an approximately 55-kDa protein that functions as a cofactor for Crm1-mediated nuclear export. RanBP3 stimulates export by enhancing the affinity of Crm1 for Ran.GTP and cargo. RanBP3 associates with Ran-specific nucleotide exchange factor RCC1 and enhances its catalytic activity towards Ran. RanBP3 also promotes CRM1-mediated nuclear export as well as CRM1-independent nuclear export of beta-catenin, Smad2, and Smad3. Nuclear import of RanBP3 is dependent on the nuclear import adaptor protein importin-alpha and, RanBP3 is imported more efficiently by importin-alpha3 than by other members of the importin-alpha family. Protein kinase signaling pathways control nucleocytoplasmic transport through phosphorylation of RanBP3 at Ser58, immediately C-terminal to the nuclear localization signal (NLS) in the N-terminal region of RanBP3.
References	Tang W, et al. (2020) Ran-binding protein 3 is associated with human spermatogenesis and male infertility. Andrologia 52 (2): e13446. Nemergut ME, et al. (2002) Ran-binding protein 3 links crm1 to the ran guanine nucleotide exchange factor. J Biol Chem 277 (20): 17385-17388. Koyama M, et al. (2017) Crystal structure of importin-alpha3 bound to the nuclear localization signal of ran-binding protein 3. Biochem Biophys Res Commun 491 (3): 609-613.

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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