

Rabbit anti-Human, Mouse RAN Polyclonal Antibody | anti-RAN antibody

Rabbit anti-RAN Antibody, Affinity Purified

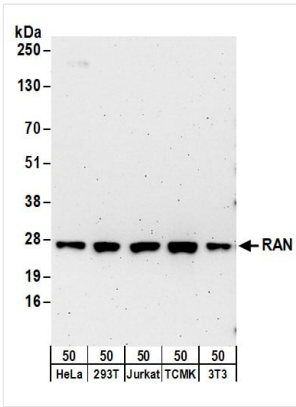
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA212603	Rabbit	Human, Mouse	Immunohistochemistry, Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

RAN; Polyclonal Antibody; Rabbit anti-RAN Antibody; Affinity Purified; OK/SW-cl.81; TC4; ras-related nuclear protein; RanGTPase; member RAS oncogene family; GTP-binding nuclear protein Ran; GTPase Ran; Gsp1; ARA24; androgen receptor-associated protein 24; ras-like protein TC4; guanosine triphosphatase Ran; anti-RAN antibody

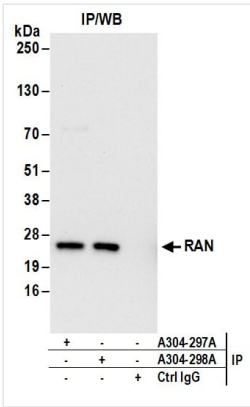
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-RAN antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot)
Predicted Reactivity	Rat, X. laevis, Chicken, Bovine, Dog, Orangutan
Immunogen	Between 166 and C-terminus
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



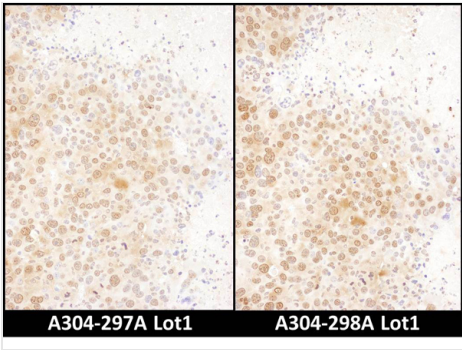
WB (Western Blot)

Detection of human and mouse RAN by western blot. Samples: Whole cell lysate (50 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells. Antibodies: Affinity purified rabbit anti-RAN antibody AAA212603 (lot AAA212603-1) used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



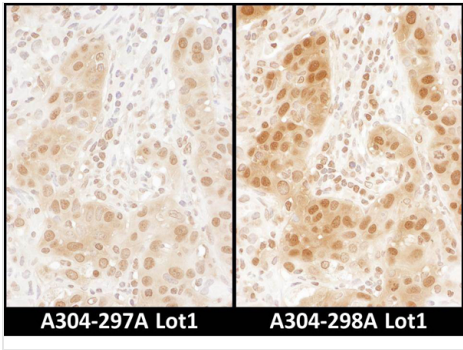
IP (Immunoprecipitation)

Detection of human RAN by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from 293T cells. Antibodies: Affinity purified rabbit anti-RAN antibody AAA212603 (lot AAA212603-1) used for IP at 6 ug per reaction. RAN was also immunoprecipitated by rabbit anti-RAN antibody For blotting immunoprecipitated RAN, AAA212603 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



IHC (Immunohistochemistry)

Detection of mouse RAN by immunohistochemistry. Samples: FFPE serial sections of mouse renal cell carcinoma. Antibody: Affinity purified rabbit anti-RAN (Cat. No. AAA212603 Lot1, left image and Cat. No. Lot1, right image) used at a dilution of 1:5,000 (0.2ug/ml). Detection: DAB



IHC (Immunohistochemistry)

Detection of human RAN by immunohistochemistry. Samples: FFPE serial sections of human breast carcinoma. Antibody: Affinity purified rabbit anti-RAN (Cat. No. AAA212603 Lot1, left image and Cat. No. Lot1, right image) used at a dilution of 1:5,000 (0.2ug/ml). Detection: DAB

ADDITIONAL INFORMATION

Related Product Information for anti-RAN antibody	RAN (ras-related nuclear protein) is a small GTP binding protein belonging to the RAS superfamily that is essential for the translocation of RNA and proteins through the nuclear pore complex. The RAN protein is also involved in control of DNA synthesis and cell cycle progression. Nuclear localization of RAN requires the presence of regulator of chromosome condensation 1 (RCC1). Mutations in RAN disrupt DNA synthesis. Because of its many functions, it is likely that RAN interacts with several other proteins. RAN regulates formation and organization of the microtubule network independently of its role in the nucleus-cytosol exchange of macromolecules. RAN could be a key signaling molecule regulating microtubule polymerization during mitosis. RCC1 generates a high local concentration of RAN-GTP around chromatin which, in turn, induces the local nucleation of microtubules. RAN is an androgen receptor (AR) coactivator that binds differentially with different lengths of polyglutamine within the androgen receptor [taken from NCBI Entrez Gene (Gene ID: 5901)].
Product Categories/Family for anti-RAN antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453555
NCBI GeneID	5901
NCBI Accession #	NP_006316.1

NCBI GenBank Nucleotide #	NM_006325.3
UniProt Accession #	P62826; P17080; P28746; P28747; Q6IPB2; Q86V08; Q8NI90; Q9CSP3; Q9CWI7; Q9CZA2; Q9UDJ5; A8K3Z8; AAB24940
Molecular Weight	24,423 Da
NCBI Official Full Name	GTP-binding nuclear protein Ran
NCBI Official Synonym Full Names	RAN, member RAS oncogene family
NCBI Official Symbol	RAN
NCBI Official Synonym Symbols	TC4; Gsp1; ARA24
NCBI Protein Information	GTP-binding nuclear protein Ran; RanGTPase; GTPase Ran; OK/SW-cl.81; ras-like protein TC4; member RAS oncogene family; ras-related nuclear protein; guanosine triphosphatase Ran; androgen receptor-associated protein 24
UniProt Protein Name	GTP-binding nuclear protein Ran
UniProt Gene Name	RAN
UniProt Synonym Gene Names	ARA24
UniProt Entry Name	RAN_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ran-antibody-immunohistochemistry-immunoprecipitation-western-blot-elisa/212603>