

Rabbit RAN Polyclonal Antibody | anti-RAN antibody

RAN Antibody (Center)

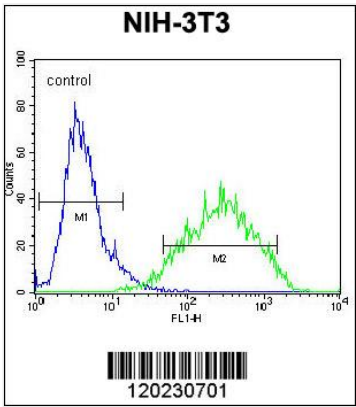
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285040	Rabbit	Human, mouse (Predicted Reactivity: Bovine, Chicken, Zebrafish, Drosophila, Monkey, Rat, Xenopus)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

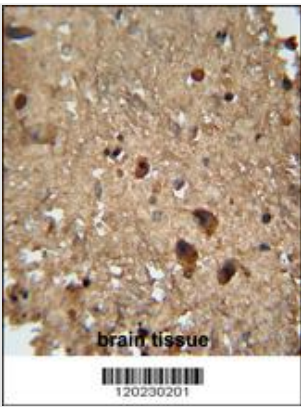
RAN; Polyclonal Antibody; RAN Antibody (Center); GTP-binding nuclear protein Ran; Androgen receptor-associated protein 24; GTPase Ran; Ras-like protein TC4; Ras-related nuclear protein; ARA24; anti-RAN antibody

PRODUCT SPECIFICATIONS

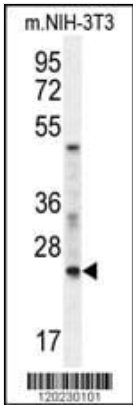
Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Bovine, Chicken, Zebrafish, Drosophila, Monkey, Rat, Xenopus)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This RAN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 112-140 amino acids from the Central region of human RAN.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	112-140
Sequence Length	216
Applicable Applications for anti-RAN antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
RAN Antibody (Center) flow cytometric analysis of NIH-3T3 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
RAN antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RAN antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
RAN Antibody (Center) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the RAN antibody detected the RAN protein (arrow).

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. Polyglutamine repeat expansion in the AR is linked to Kennedy's disease (X-linked spinal and bulbar muscular atrophy). RAN coactivation of the AR diminishes with polyglutamine expansion within the AR, and this weak coactivation may lead to partial androgen insensitivity during the development of Kennedy's disease.

Product Categories/Family for anti-RAN antibody	Cell Biology; Signal transduction
References	Kim, J.S., et al. Mol. Carcinog. 49(10):913-921(2010) Liu, C., et al. Mol. Cell. Biol. 30(16):3956-3969(2010) Boni, V., et al. Pharmacogenomics J. (2010) In press : Ly, T.K., et al. J. Biol. Chem. 285(8):5815-5826(2010) Mishra, R.K., et al. Nat. Cell Biol. 12(2):164-169(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453555
NCBI GeneID	5901
NCBI Accession #	NP_006316.1
NCBI GenBank Nucleotide #	NM_006325.4
UniProt Accession #	P62826; P17080; P28746; P28747; Q6IPB2; Q86V08; Q8NI90; Q9CSP3; Q9CWI7; Q9CZA2; Q9UDJ5; A8K3Z8; AAB24940
Molecular Weight	24423
NCBI Official Full Name	GTP-binding nuclear protein Ran isoform 1
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
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-flow-cytometry-immunohistochemistry-western-blot-elisa/285040>