Product Name: Ran Rabbit Polyclonal Antibody

Catalog #: APRab16880



Summary

Production Name Ran Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Storage

Gene Name RAN

RAN; ARA24; OK/SW-cl.81; GTP-binding nuclear protein Ran; Androgen receptor-Alternative Names

associated protein 24; GTPase Ran; Ras-like protein TC4; Ras-related nuclear protein

Gene ID 5901.0

P62826.The antiserum was produced against synthesized peptide derived from human

RAN. AA range:167-216

Application

SwissProt ID

Dilution Ratio WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:10000, IF-P/IF-F/ICC/IF 1:50-200

Molecular Weight 25kDa

Product Name: Ran Rabbit Polyclonal Antibody

Catalog #: APRab16880

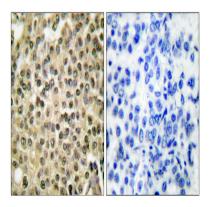


Background

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 refunction: Enhances AR-mediated transactivation. Transactivation decreases as the poly-Gln length within AR increases, function: GTP-binding protein involved in nucleocytoplasmic transport. Required for the import of protein into the nucleus and also for RNA export. Involved in chromatin condensation and control of cell cycle., PTM: The N-terminus is blocked., similarity: Belongs to the small GTPase superfamily. Ran family, subcellular location: Becomes dispersed throughout the cytoplasm during mitosis. Identified by mass spectrometry in melanosome fractions from stage I to stage IV., subunit: Monomer. Also forms a complex with CHC1 and interacts with the AR N-terminal poly-Gln region. The interaction with AR is inversely correlated with the poly-Gln length. Part of a complex consisting of RANBP9, Ran, DYRK1B and COPS5. Found in a nuclear export complex with RANBP3 and XPO1. Component of a nuclear export receptor complex composed of KPNB1, Ran, SNUPN and XPO1. Found in a trimeric export complex with SNUPN, Ran and XPO1. Interacts with RANBP10. In case of HIV-1 infection, found in a complex with HIV-1 Rev, RNAs containing a Rev response element (RRE) and XPO1. Found in a complex with HTLV-1 Rex, RANBP3 and XPO1., tissue specificity: Expressed in a variety of tissues.,

Research Area

Image Data



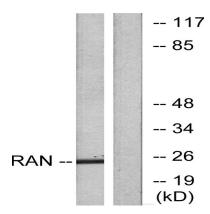
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using RAN Antibody. The picture on the right is blocked with the synthesized peptide.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

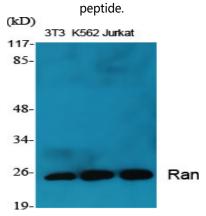
Product Name: Ran Rabbit Polyclonal Antibody

Catalog #: APRab16880





Western blot analysis of lysates from LOVO cells, using RAN Antibody. The lane on the right is blocked with the synthesized



Western Blot analysis of various cells using Ran Polyclonal Antibody diluted at 1: 2000

Note

For research use only.