

Datasheet for ABIN3032431
anti-RAN antibody (AA 12-39)[Go to Product page](#)

6 Images

Overview

Quantity:	0.4 mL
Target:	RAN
Binding Specificity:	AA 12-39
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAN antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Immunogen:	A portion of amino acids 12-39 from the human protein was used as the immunogen for this RAN antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Rat, Bovine, Primate, Chicken, Zebrafish, Xenopus, Yeast, C. elegans
Purification:	Purified

Target Details

Target:	RAN
Alternative Name:	RAN (RAN Products)
Background:	RAN (ras-related nuclear protein) is a small GTP binding protein belonging to the RAS

Target Details

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.

UniProt: [P62826](#)

Pathways: [Regulatory RNA Pathways](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Protein targeting to Nucleus](#)

Application Details

Application Notes: Titration of the RAN antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. IHC (Paraffin): 1:50-1:100,Flow Cytometry: 1:10-1:50,Western blot: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

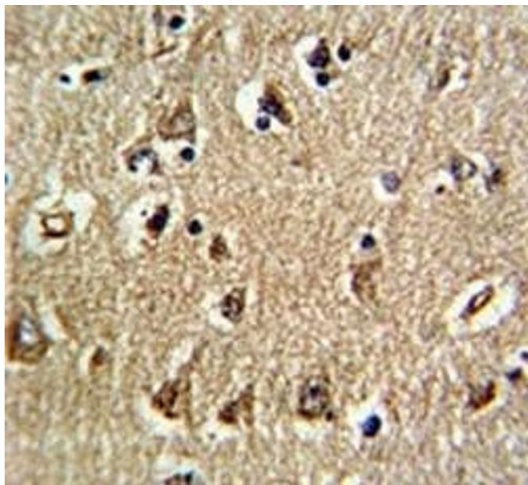
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Aliquot the RAN antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw

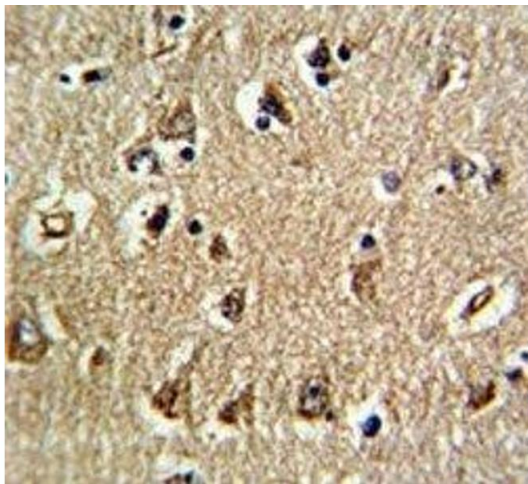
cycles.

Images



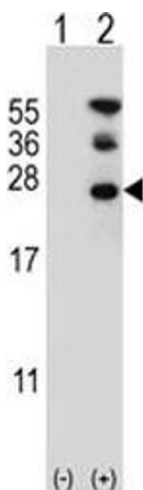
Immunohistochemistry

Image 1. IHC analysis of FFPE human brain tissue stained with RAN antibody



Immunohistochemistry

Image 2. IHC analysis of FFPE human brain tissue stained with RAN antibody



Western Blotting

Image 3. Western blot analysis of RAN antibody and 293 cell lysate either nontransfected (Lane 1) or transiently transfected (2) with the RAN gene.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3032431.