

Datasheet for ABIN5542382
anti-RAN antibody (AA 1-216)

10 Images

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Overview

Quantity:	0.1 mg
Target:	RAN
Binding Specificity:	AA 1-216
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RAN antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human RAN (AA: 1-216) expressed in E. coli.
Clone:	8D1A6
Isotype:	IgG1
Purification:	purified

Target Details

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

Target Details

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.,

Aliases: TC4, Gsp1, ARA24

Molecular Weight:	24.4 kDa
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Gene ID:	5901
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HGNC:	5901
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Pathways:	Regulatory RNA Pathways , Intracellular Steroid Hormone Receptor Signaling Pathway , Protein targeting to Nucleus
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Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	Purified antibody in PBS with 0.05 % sodium azide
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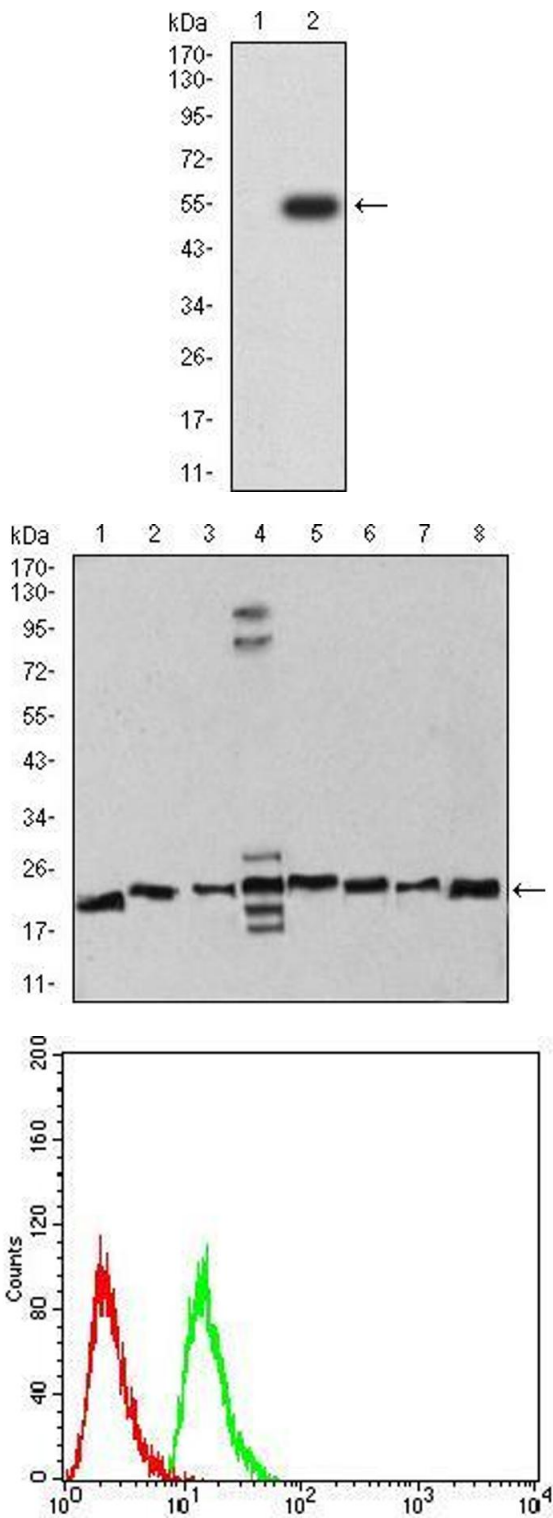
Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C/-20 °C
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Storage Comment: 4°C, -20°C for long term storage

Validation report #103821 for Proximity Ligation Assay (PLA)



Western Blotting

Image 1. Western blot analysis using RAN mAb against HEK293 (1) and RAN (AA: 1-216)-hIgGFc transfected HEK293 (2) cell lysate.

Western Blotting

Image 2. Western blot analysis using RAN mouse mAb against HeLa (1), NIH/3T3 (2), A431 (3), C6 (4), Jurkat (5), HeLa (6), COS7 (7), and Jurkat (8) cell lysate.

Flow Cytometry

Image 3. Flow cytometric analysis of HeLa cells using RAN mouse mAb (green) and negative control (red).

Please check the [product details page](#) for more images. Overall 10 images are available for ABIN5542382.