

Datasheet for ABIN967913
anti-RAN antibody (AA 7-171)[Go to Product page](#)

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Overview

Quantity:	150 µg
Target:	RAN
Binding Specificity:	AA 7-171
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RAN antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human Ran aa. 7-171
Clone:	20-Ran
Isotype:	IgG2a
Cross-Reactivity:	Chicken, Dog (Canine), Mouse (Murine), Rat (Rattus)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	RAN
Alternative Name:	Ran (RAN Products)
Background:	Ran is a highly conserved GTPase that is ubiquitously expressed. At steady-state, 80-90% of cellular Ran is located in the nucleus, with the remainder in the cytoplasm. The human TC4/Ran cDNA was originally isolated based on the predicted homology of its encoded protein product to Ras. Unlike other members of the Ras superfamily, Ran does not appear to contain signals for lipid modification, nor does it appear to show membrane localization. Ran has been implicated in a number of cellular processes such as the initiation of DNA replication, entry into and exit from mitosis and in nuclear RNA and protein transport through the nuclear pore complex. A number of Ran binding proteins have been identified. One of the smaller proteins identified is a 28kDa cytosolic molecule known as RanBP1. The GTP-bound state of Ran is stabilized through its binding to RanBP1.
Molecular Weight:	25 kDa
Pathways:	Regulatory RNA Pathways , Intracellular Steroid Hormone Receptor Signaling Pathway , Protein targeting to Nucleus

Application Details

Comment:	Related Products: ABIN968533, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤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.

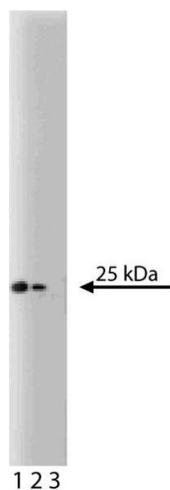
Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

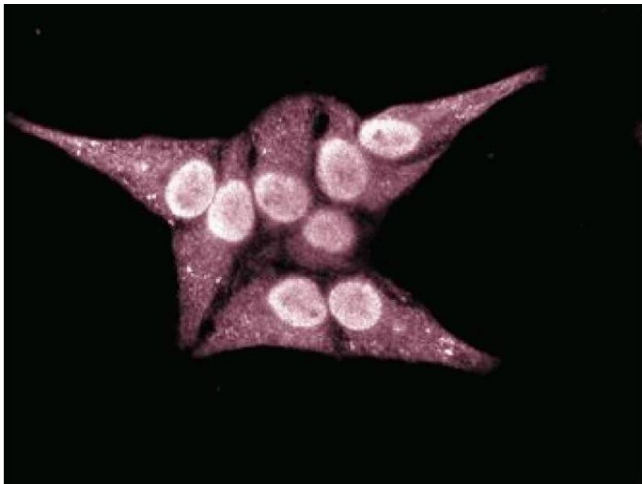
Product cited in:	Nemergut, Lindsay, Brownawell, Macara: "Ran-binding protein 3 links Crm1 to the Ran guanine nucleotide exchange factor." in: The Journal of biological chemistry , Vol. 277, Issue 20, pp. 17385-8, (2002) (PubMed).
	Schwoebel, Ho, Moore: "The mechanism of inhibition of Ran-dependent nuclear transport by cellular ATP depletion." in: The Journal of cell biology , Vol. 157, Issue 6, pp. 963-74, (2002) (PubMed).
	Faleiro, Lazebnik: "Caspases disrupt the nuclear-cytoplasmic barrier." in: The Journal of cell biology , Vol. 151, Issue 5, pp. 951-9, (2000) (PubMed).
	Iborra, Jackson, Cook: "The path of RNA through nuclear pores: apparent entry from the sides into specialized pores." in: Journal of cell science , Vol. 113 Pt 2, pp. 291-302, (2000) (PubMed).
	Drivas, Shih, Coutavas, Rush, DEustachio: "Characterization of four novel ras-like genes expressed in a human teratocarcinoma cell line." in: Molecular and cellular biology , Vol. 10, Issue 4, pp. 1793-8, (1990) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of Ran on A431 cell lysate. Lane 1: 1:5000, lane 2: 1:10000, lane 3: 1:20000 dilution of anti-Ran antibody.



Immunofluorescence

Image 2. Immunofluorescent staining of HeLa cells.



Image 3.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN967913.