

# RAN Polyclonal Antibody

## Product Details

Size	100 µL
Species Reactivity	Bovine, Fruit fly, Hamster, Human, Mouse, Non-human primate, Rat, Xenopus
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Two synthetic peptides corresponding to amino acids surrounding Arg29 and Asn143 of human Ran
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	no preservative
Storage conditions	-20°C
RRID	AB_10981803

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunocytochemistry (ICC/IF)	1:200	-

## Product Specific Information

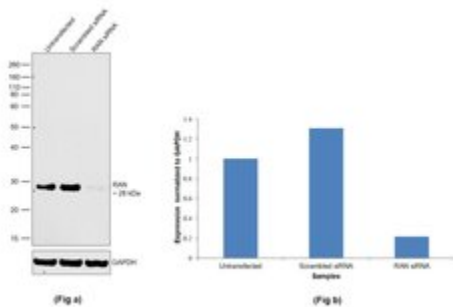
It is not recommended to aliquot this antibody.

This antibody is not cross-reactive with other small GTPases of the Ras family.

## Advanced Verification Data

### RAN Antibody (PA5-17652)

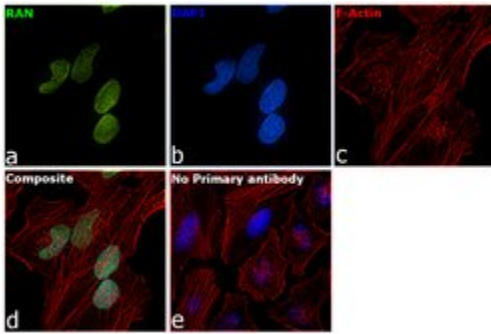
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with RAN siRNA and decrease in signal intensity was observed in western blot application using Anti-RAN Polyclonal Antibody (Product # PA5-17652). Knockdown validation info.



## Product Images For RAN Polyclonal Antibody

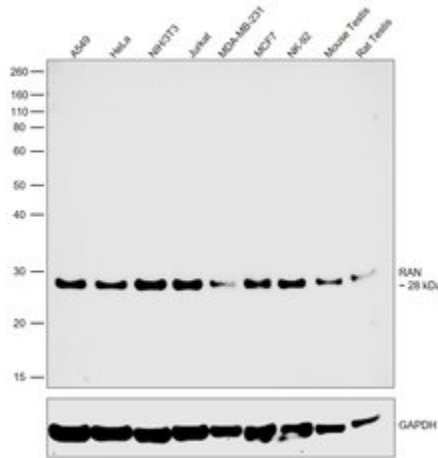
### RAN Antibody (PA5-17652) in ICC/IF

Immunofluorescence analysis of RAN was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with RAN Polyclonal Antibody (Product # PA5-17652) at 1:200 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing staining in nucleus. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



### RAN Antibody (PA5-17652) in WB

Western blot was performed using Anti-RAN Polyclonal Antibody (Product # PA5-17652) and a 28 kDa band corresponding to RAN was observed across all the cell lines and tissues tested. Whole cell extracts (30 µg lysate) of A549 (Lane 1), HeLa (Lane 2), NIH/3T3 (Lane 3), Jurkat (Lane 4), MDA-MB-231 (Lane 5), MCF7 (Lane 6), NK-92 (Lane 7), tissue extracts of Mouse Testis (Lane 8) and Rat Testis (Lane 9) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



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