

RAN Monoclonal Antibody (ARAN1)

Product Details

| | |
|--------------------|--|
| Size | 50 µL |
| Species Reactivity | Bovine, Hamster, Human, Mouse, Rat, Xenopus |
| Published Species | Mouse |
| Host/Isotype | Mouse / IgG2b |
| Class | Monoclonal |
| Type | Antibody |
| Clone | ARAN1 |
| Conjugate | Unconjugated |
| Immunogen | Denatured, recombinant, human ran protein. |
| Form | Liquid |
| Concentration | 2.5 mg/mL |
| Purification | purified |
| Storage buffer | 0.01M PBS, pH 7.4 |
| Contains | 15mM sodium azide |
| Storage conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |
| RRID | AB_560865 |

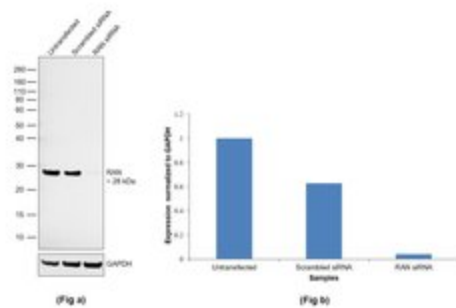
| Applications | Tested Dilution | Publications |
|------------------------------|-----------------|---------------|
| Western Blot (WB) | 0.5-1 µg/mL | - |
| Immunocytochemistry (ICC/IF) | 5 µg/ml | 1 Publication |
| ELISA (ELISA) | Assay-dependent | - |
| Immunoprecipitation (IP) | Assay-dependent | - |

Product Specific Information

Recommended positive controls: Jurkat.

RAN Antibody (MA1-20581)

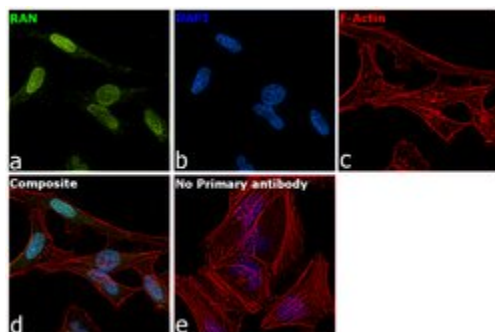
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with RAN siRNA and decrease in signal intensity was observed in western blot application using Anti-RAN Monoclonal Antibody (Product # MA1-20581). Knockdown validation info.



Product Images For RAN Monoclonal Antibody (ARAN1)

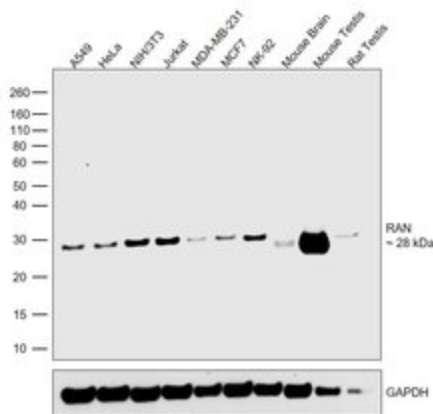
RAN Antibody (MA1-20581) in ICC/IF

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 Monoclonal Antibody (ARAN1) (Product # MA1-20581) at 5 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766) 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 and cytoplasm. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



RAN Antibody (MA1-20581) in WB

Western blot was performed using Anti-RAN Monoclonal Antibody (Product # MA1-20581) 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 Brain (Lane 8), Mouse Testis (Lane 9) and Rat Testis (Lane 10) 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 (0.5 µg/ml) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 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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Immunocytochemistry (1)

Disease models & mechanisms

Neuroprotection resulting from insufficiency of RANBP2 is associated with the modulation of protein and lipid homeostasis of functionally diverse but linked pathways in response to oxidative stress.

"MA1-20581 was used in immunocytochemistry to investigate the neuroprotective effect of RANBP2 insufficiency against light damage"

Authors: Cho KI, Yi H, Tserentsoodol N, Searle K, Ferreira PA

Species
Mouse

Dilution
1:4,000

Year
2010

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