

For Research Use Only

# RAN Recombinant antibody

Catalog Number: 82978-1-RR



## Basic Information

<b>Catalog Number:</b> 82978-1-RR	<b>GenBank Accession Number:</b> BC004272	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 250 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5901	<b>CloneNo.:</b> 230317F3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P62826	<b>Recommended Dilutions:</b> WB 1:1000-1:5000 IF 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> RAN, member RAS oncogene family	
<b>Immunogen Catalog Number:</b> AG0748	<b>Calculated MW:</b> 25 kDa	
	<b>Observed MW:</b> 24 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, mouse, rat	<b>WB :</b> HeLa cells, A375 cells, Jurkat cells, NIH/3T3 cells, C6 cells <b>IF :</b> HeLa cells,

## Background Information

RAN is also named as ARA24, Ras-like protein TC4 and GTPase Ran, and belongs to the small GTPase superfamily family and the Ran family. GTPase Ran switches between a cytoplasmic GDP- and a nuclear GTP-bound state by nucleotide exchange and GTP hydrolysis (PMID:7819259, PMID:32528950). RAN (GTP-bound form) triggers microtubule assembly at mitotic chromosomes and is required for normal mitotic spindle assembly and chromosome segregation (PMID:10408446, PMID:29040603, PMID:32528950).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

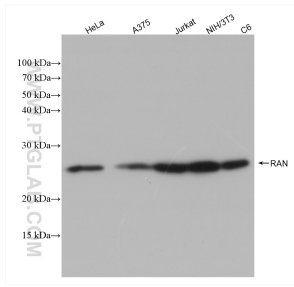
For technical support and original validation data for this product please contact:

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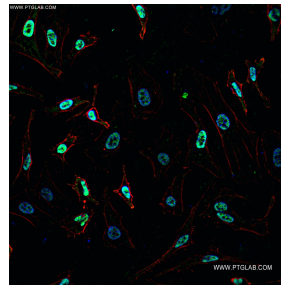
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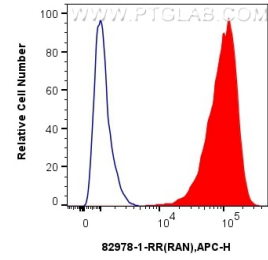
## Selected Validation Data



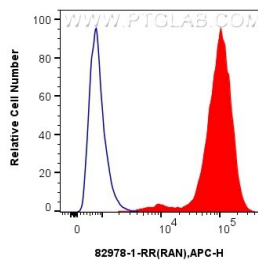
Various lysates were subjected to SDS PAGE followed by western blot with 82978-1-RR (RAN antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using RAN antibody (82978-1-RR, Clone: 230317F3) at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



$1 \times 10^6$  A431 cells were intracellularly stained with 0.25 ug Anti-Human RAN (82978-1-RR, Clone:230317F3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25 ug Anti-Human RAN (82978-1-RR, Clone:230317F3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.