

For Research Use Only

# RAN Recombinant antibody, PBS Only

Catalog Number: 82978-1-PBS



## Basic Information

<b>Catalog Number:</b> 82978-1-PBS	<b>GenBank Accession Number:</b> BC004272	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1mg/ml	<b>GeneID (NCBI):</b> 5901	<b>CloneNo.:</b> 230317F3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P62826	
<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

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## 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 -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

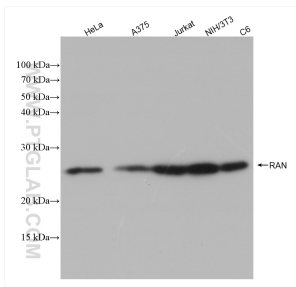
T: 4006900926

E: Proteintech-CN@ptglab.com

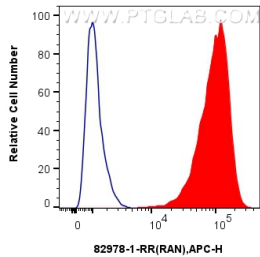
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

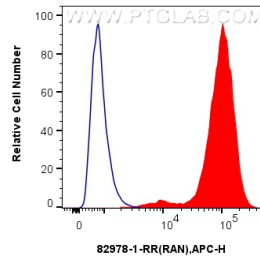
Selected Validation Data



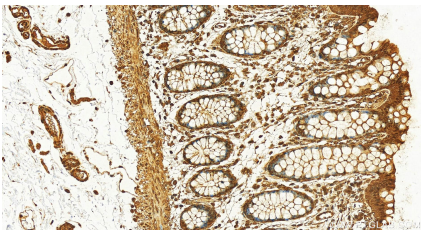
Various lysates were subjected to SDS PAGE followed by western blot with 82978-1-RR (RAN antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82978-1-PBS in a different storage buffer formulation.



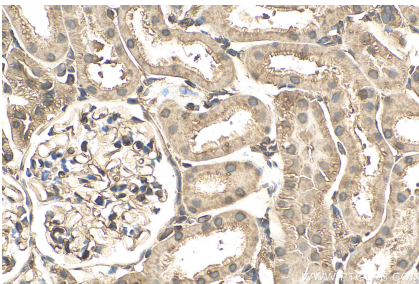
1x10<sup>6</sup> A431 cells were intracellularly stained with 0.25 ug Anti-Human RAN (82978-1-RR, Clone:230317F3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 82978-1-PBS in a different storage buffer formulation.



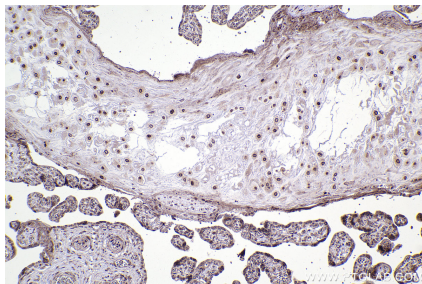
1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug Anti-Human RAN (82978-1-RR, Clone:230317F3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 82978-1-PBS in a different storage buffer formulation.



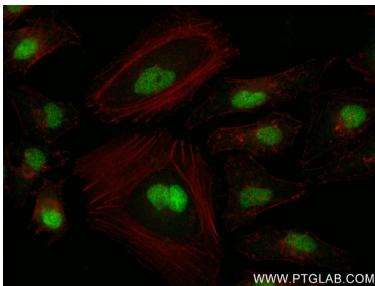
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 82978-1-RR (RAN antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82978-1-PBS in a different storage buffer formulation.



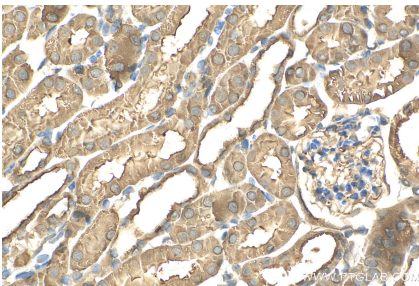
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 82978-1-RR (RAN antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82978-1-PBS in a different storage buffer formulation.



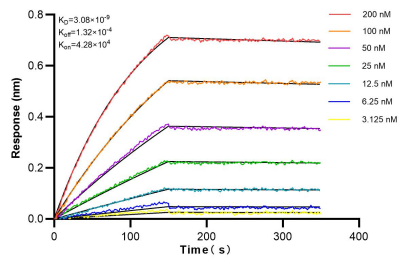
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 82978-1-RR (RAN antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82978-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using RAN antibody (82978-1-RR, Clone: 230317F3 ) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 82978-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 82978-1-RR (RAN antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82978-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82978-1-RR against Human RAN were performed. The affinity constant is 3.08 nM.