

For Research Use Only

RAN Monoclonal antibody

Catalog Number: 67500-1-Ig **1 Publications**



Basic Information

Catalog Number: 67500-1-Ig	GenBank Accession Number: BC004272	Purification Method: Protein A purification
Size: 150ul , Concentration: 1700 ug/ml by 5901 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5901	CloneNo.: 1B11E1
Source: Mouse	UNIPROT ID: P62826	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:200-1:800 IF-P 1:200-1:800
Isotype: IgG2b	Full Name: RAN, member RAS oncogene family	
Immunogen Catalog Number: AG30034	Calculated MW: 25 kDa	
	Observed MW: 24 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Cited Applications:
IF, IHC

Species Specificity:
Human, mouse, rat

Cited Species:
mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells

IHC : human colon cancer tissue, human breast cancer tissue

IF-P : human breast cancer tissue,

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Zhaoli Zhang	38254162	Lipids Health Dis	IHC,IF

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**

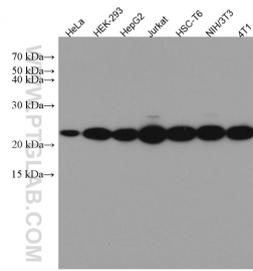
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

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

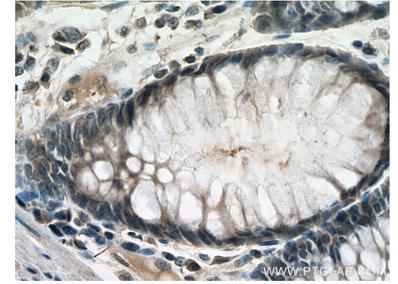
Selected Validation Data



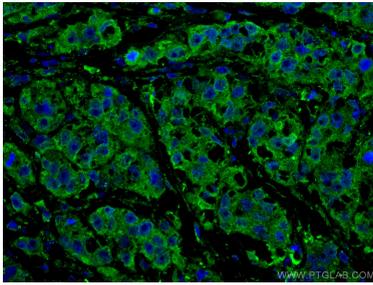
Various lysates were subjected to SDS PAGE followed by western blot with 67500-1-Ig (RAN antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67500-1-Ig (RAN antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67500-1-Ig (RAN antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using RAN antibody (67500-1-Ig, Clone: 1B11E1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).