

For Research Use Only

RCC1 Polyclonal antibody

Catalog Number: 22142-1-AP

7 Publications



Basic Information

Catalog Number:

22142-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 380 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17569

GenBank Accession Number:

BC010067

GeneID (NCBI):

1104

UNIPROT ID:

P18754

Full Name:

regulator of chromosome condensation 1

Calculated MW:

421 aa, 45 kDa

Observed MW:

45-50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF/ICC 1:750-1:3000

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, monkey

Cited Species:

human, 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: A431 cells, HEK-293 cells, NIH/3T3 cells, HepG2 cells, Jurkat cells, SH-SY5Y cells, COS-7 cells, HeLa cells, MCF-7 cells

IP: HEK-293 cells,

IHC: human stomach tissue, human small intestine tissue

IF/ICC: A431 cells,

Background Information

CHC1, also named as RCC1, promotes the exchange of ran-bound gdp by gtp. It is involved in the regulation of onset of chromosome condensation in the S-phase. Phosphorylation of RCC1 on serines located in or near its nuclear localization signal activates RCC1 to generate RanGTP on mitotic chromosomes, which is required for spindle assembly and chromosome segregation. This antibody is a rabbit polyclonal antibody raised against residues near the C terminus of human RCC1.

Notable Publications

Author	Pubmed ID	Journal	Application
Yudong Song	30241030	Biomaterials	WB
Diana Vargas-Hurtado	31495584	Curr Biol	IF
Lijun Qiao	29789527	Cell Death Dis	IHC

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

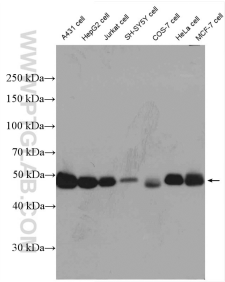
For technical support and original validation data for this product please contact:

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

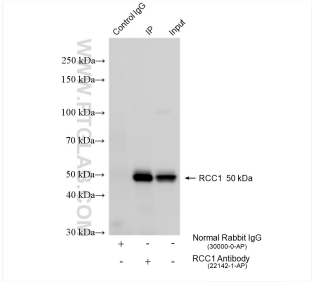
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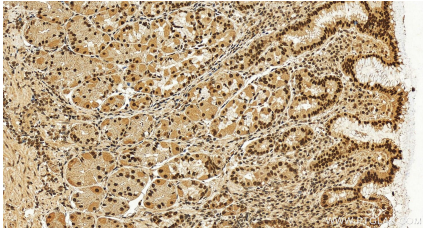
Selected Validation Data



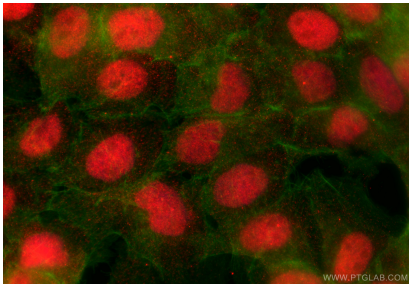
Various lysates were subjected to SDS PAGE followed by western blot with 22142-1-AP (RCC1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-RCC1 (IP:22142-1-AP, 4ug; Detection:22142-1-AP 1:8000) with HEK-293 cells lysate 1360 ug.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 22142-1-AP (RCC1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using RCC1 antibody (22142-1-AP) at dilution of 1:1500 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-Phalloidin (green).