

For Research Use Only

# RASA2 Polyclonal antibody

Catalog Number: 31586-1-AP



## Basic Information

<b>Catalog Number:</b> 31586-1-AP	<b>GenBank Accession Number:</b> NM_001303245	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 480 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5922	<b>Recommended Dilutions:</b> IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:300-1:1200 IF/ICC: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q15283	
<b>Isotype:</b> IgG	<b>Full Name:</b> RAS p21 protein activator 2	
<b>Immunogen Catalog Number:</b> AG35885	<b>Calculated MW:</b> 96kDa	
	<b>Observed MW:</b> 97 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF/ICC, IP, ELISA	<b>Positive Controls:</b> IP : Jurkat cells, A431 cells IHC : human Hepatocellular carcinoma, IF/ICC : A431 cells,
<b>Species Specificity:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Ras GTPase-activating protein 2 (RASA2) is also named GAP1M and RASGAP. RASA2 was a critical RAS-specific GAP, inhibition of which permitted increased proliferation following TCR stimulation under conditions of immunosuppression (PMID: 37858490). RASA2 was identified as an inhibitor of RAS signaling in multiple human tumors, including melanoma, where inactivating RASA2 mutations have been found (PMID: 26502337). RASA2 is also one of the genes mutated in Noonan syndrome, a Rasopathy associated with developmental defects and elevated RAS activity (PMID: 25049390). RASA2 is expressed in both CD4+ and CD8+ T cells (PMID: 36002574).

## Storage

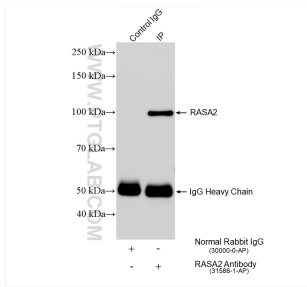
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

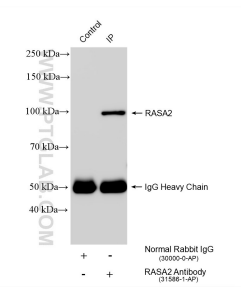
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

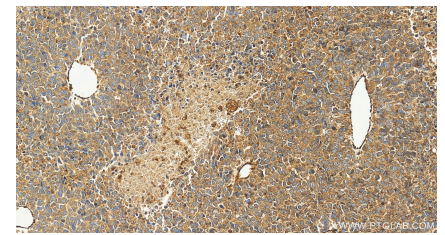
## Selected Validation Data



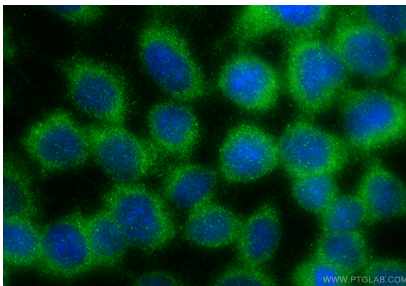
IP result of anti-RASA2 (IP:31586-1-AP, 4ug; Detection:31586-1-AP 1:1000) with Jurkat cells lysate 1920 ug.



IP result of anti-RASA2 (IP:31586-1-AP, 4ug; Detection:31586-1-AP 1:1000) with A431 cells lysate 1120 ug.



Immunohistochemical analysis of paraffin-embedded human Hepatocellular carcinoma slide using 31586-1-AP (RASA2 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using RASA2 antibody (31586-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).