

For Research Use Only

# RAC2 Polyclonal antibody

Catalog Number: 10735-1-AP

Featured Product

6 Publications



## Basic Information

**Catalog Number:**  
10735-1-AP

**Size:**  
150ul, Concentration: 400 µg/ml by Nanodrop and 227 µg/ml by Bradford method using BSA as the standard;

**Source:**  
Rabbit

**Isotype:**  
IgG

**Immunogen Catalog Number:**  
AG1202

**GenBank Accession Number:**  
BC001485

**GeneID (NCBI):**  
5880

**Full Name:**  
ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)

**Calculated MW:**  
21 kDa

**Observed MW:**  
21 kDa

**Purification Method:**  
Antigen affinity purification

**Recommended Dilutions:**  
WB 1:500-1:1000  
IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB  
IHC 1:50-1:500

## Applications

**Tested Applications:**  
IHC, IP, WB, ELISA

**Cited Applications:**  
WB

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

**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, HL-60 cells, mouse spleen tissue, rat spleen tissue

**IP:** HL-60 cells,

**IHC:** human tonsillitis tissue, human renal cell carcinoma tissue

## Background Information

RAC2, also named as GX, belongs to the small GTPase superfamily and Rho family. RAC2 is a plasma membrane-associated small GTPase which cycles between an active GTP-bound and inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses, such as secretory processes, phagocytosis of apoptotic cells and epithelial cell polarization. RAC2 augments the production of reactive oxygen species (ROS) by NADPH oxidase. Defects in RAC2 are the cause of neutrophil immunodeficiency syndrome.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu Lian	30326930	J Exp Clin Cancer Res	WB
Kai Zhang	34867191	Front Mol Neurosci	WB
Baoyu He	33725570	Biochem Biophys Res Commun	WB

## 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

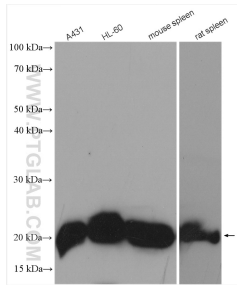
For technical support and original validation data for this product please contact:

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

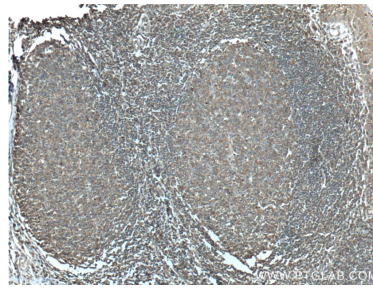
E: proteintech@ptglab.com  
W: ptglab.com

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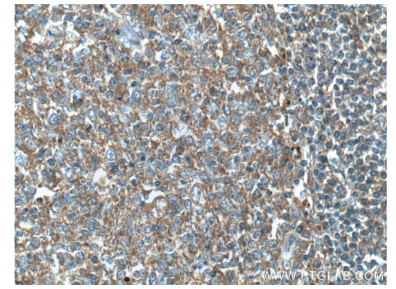
## Selected Validation Data



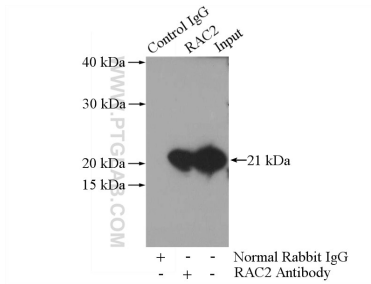
Various lysates were subjected to SDS PAGE followed by western blot with 10735-1-AP (RAC2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10735-1-AP (RAC2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10735-1-AP (RAC2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-RAC2 (IP:10735-1-AP, 3ug; Detection:10735-1-AP 1:300) with HL-60 cells lysate 4000ug.