

For Research Use Only

# RAC1 Recombinant monoclonal antibody

Catalog Number: 88471-1-RR



## Basic Information

|                                                                |                                                                                                              |                                                                                                |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Catalog Number:</b><br>88471-1-RR                           | <b>GenBank Accession Number:</b><br>BC004247                                                                 | <b>Purification Method:</b><br>Protein A purification                                          |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>5879                                                                                | <b>CloneNo.:</b><br>260819A6                                                                   |
| <b>Source:</b><br>Rabbit                                       | <b>UNIPROT ID:</b><br>P63000                                                                                 | <b>Recommended Dilutions:</b><br>WB: 1:5000-1:50000<br>IHC: 1:200-1:800<br>IF/ICC: 1:200-1:800 |
| <b>Isotype:</b><br>IgG                                         | <b>Full Name:</b><br>ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) |                                                                                                |
| <b>Immunogen Catalog Number:</b><br>AG0751                     | <b>Calculated MW:</b><br>21 kDa                                                                              |                                                                                                |
|                                                                | <b>Observed MW:</b><br>21 kDa                                                                                |                                                                                                |

## Applications

|                                                                                                                                                      |                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, IHC, IF/ICC, ELISA                                                                                                | <b>Positive Controls:</b>                                                                                          |
| <b>Species Specificity:</b><br>human, mouse, rat                                                                                                     | <b>WB :</b> HeLa cells, HEK-293 cells, HUVEC cells, HL-60 cells, RAW 264.7 cells, HSC-T6 cells, mouse brain tissue |
| <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> | <b>IHC :</b> rat brain tissue, mouse brain tissue, human liver cancer tissue                                       |
|                                                                                                                                                      | <b>IF/ICC :</b> HeLa cells,                                                                                        |

## Background Information

RAC1b, also named as TC25, belongs to the small GTPase superfamily and Rho family. RAC1 is a plasma membrane-associated small GTPase which cycles between active GTP-bound and inactive GDP-bound states. In its active state, it binds to a variety of effector proteins to regulate cellular responses such as secretory processes, phagocytosis of apoptotic cells, epithelial cell polarization and growth-factor induced formation of membrane ruffles.

## Storage

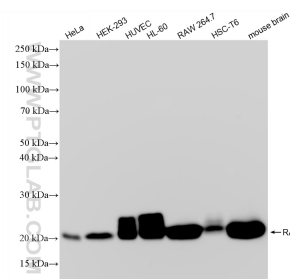
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

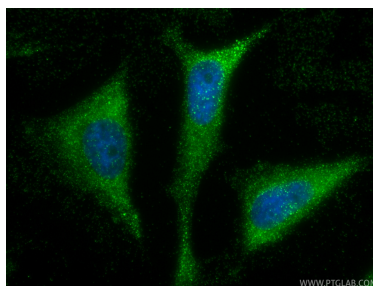
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88471-1-RR (RAC1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using RAC1 antibody (88471-1-RR, Clone: 260819A6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 88471-1-RR (RAC1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).