

For Research Use Only

# ARHGEF4 Polyclonal antibody

Catalog Number: 55213-1-AP

Featured Product

8 Publications



## Basic Information

### Catalog Number:

55213-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_015320

### GeneID (NCBI):

50649

### UNIPROT ID:

Q9NR80

### Full Name:

Rho guanine nucleotide exchange factor (GEF) 4

### Calculated MW:

79 kDa

### Observed MW:

72 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IF, IHC, CoIP

### Species Specificity:

human, mouse

### 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 : mouse brain tissue, multi-cells/tissue

IP : mouse brain tissue,

IHC : human brain tissue,

## Background Information

ARHGEF4, also named as KIAA1112 and Asef, acts as guanine nucleotide exchange factor (GEF) for RhoA and RAC1 GTPases. Binding of APC, ARHGEF4 may activate RAC1 GEF activity. The APC-ARHGEF4 complex seems to be involved in cell migration as well as in E-cadherin-mediated cell-cell adhesion.(PMID: 10873612). This antibody is specific to ARHGEF4.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lesley S Chaboub	27881777	J Neurosci	IHC,IF
Xiaowei Zhang	30871422	Cell Adh Migr	WB
Zhi Xiong	29961810	Biol Reprod	WB

## Storage

### Storage:

Store at -20°C.

### 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

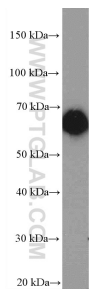
For technical support and original validation data for this product please contact:

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

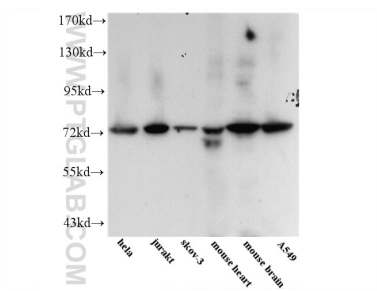
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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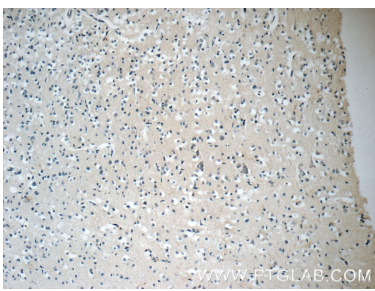
Selected Validation Data



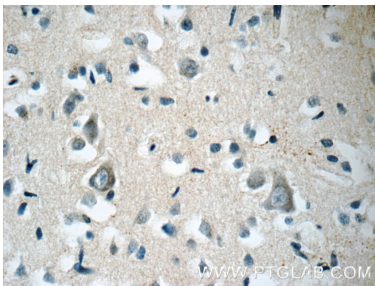
mouse brain tissue were subjected to SDS PAGE followed by western blot with 55213-1-AP (ARHGEF4 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



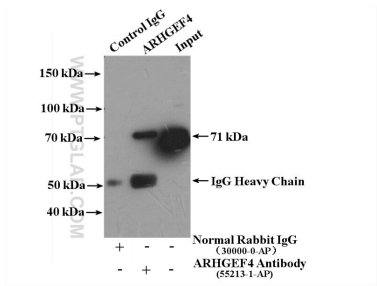
WB result of 55213-1-AP (ARHGEF4 Antibody).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 55213-1-AP (ARHGEF4 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 55213-1-AP (ARHGEF4 Antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-ARHGEF4 (IP:55213-1-AP, 4ug; Detection:55213-1-AP 1:1000) with mouse brain tissue lysate 4000ug.