ARHGEF4
Polyclonal ANTIBODY
Catalog Number:55213-1-AP

Basic Information
Catalog Number: 55213-1-AP
Size: 55 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: GenBank Accession Number: NM_015320 GeneID (NCBI): 50649

Recommended Dilutions:
WB: 1:200-1:2000
IP: 0.5-4.0 μg for IP and 1:200-1:2000 for WB
IHC: 1:20-1:200

Calculation MW: 79 kDa
Observed MW: 72 kDa

Applications
Tested Applications: IHC, IP, WB, ELISA
Cited Applications: CoIP, IF, IHC
Species Specificity: human, mouse
Cited Species: human, mouse

Applications
Note: 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

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lesley S Chaboub</td>
<td>27881777</td>
<td>J Neurosci</td>
<td>IHC, IF</td>
</tr>
<tr>
<td>Haiming Jiang</td>
<td>20799015</td>
<td>Nat Chem Biol</td>
<td>CoIP</td>
</tr>
<tr>
<td>Keisuke Tsuchi</td>
<td>30239902</td>
<td>Int J Oncol</td>
<td></td>
</tr>
</tbody>
</table>

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

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