

For Research Use Only

SYNGAP1 Polyclonal antibody, PBS Only

Catalog Number: 19739-1-PBS



Basic Information

Catalog Number:

19739-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_006772

GeneID (NCBI):

8831

UNIPROT ID:

Q96PVO

Full Name:

synaptic Ras GTPase activating protein 1 homolog (rat)

Calculated MW:

1343 aa, 148 kDa

Observed MW:

148 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, Indirect ELISA

Species Specificity:

human, mouse, rat, pig

Background Information

SYNGAP1, also named as KIAA1938, is the major constituent of the PSD essential for postsynaptic signaling. It's an inhibitory regulator of the Ras-cAMP pathway. SYNGAP1 is a member of the NMDAR signaling complex in excitatory synapses, it may play a role in NMDAR-dependent control of AMPAR potentiation, AMPAR membrane trafficking and synaptic plasticity. SYNGAP1 regulates AMPAR-mediated miniature excitatory postsynaptic currents. SYNGAP1 may be involved in certain forms of brain injury, leading to long-term learning and memory deficits. Defects in SYNGAP1 are the cause of mental retardation autosomal dominant type 5 (MRD5).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

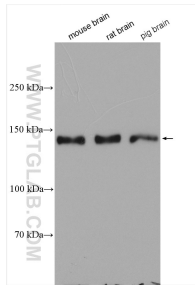
For technical support and original validation data for this product please contact:

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

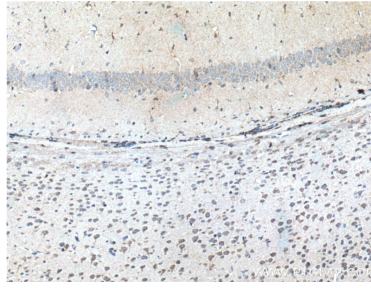
E: proteintech@ptglab.com
W: ptglab.com

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

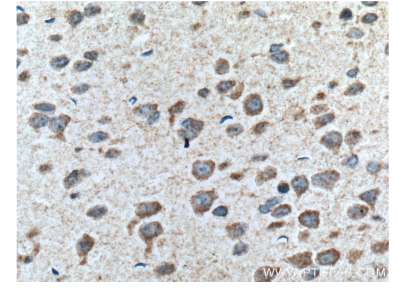
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 19739-1-AP (SYNGAP1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 19739-1-PBS in a different storage buffer formulation.



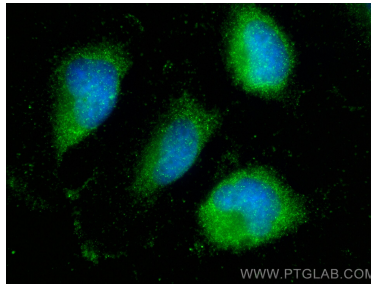
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19739-1-AP (SYNGAP1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 19739-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19739-1-AP (SYNGAP1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 19739-1-PBS in a different storage buffer formulation.



IP result of anti-SYNGAP1 (IP:19739-1-AP, 4ug; Detection:19739-1-AP 1:1500) with mouse brain tissue lysate 2120 ug. This data was developed using the same antibody clone with 19739-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using SYNGAP1 antibody (19739-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 19739-1-PBS in a different storage buffer formulation.