

For Research Use Only

ARC/ARG3.1 Polyclonal antibody

Catalog Number: 16290-1-AP

Featured Product

26 Publications



Basic Information

Catalog Number:

16290-1-AP

Size:

150ul, Concentration: 900 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9445

GenBank Accession Number:

BC012321

GeneID (NCBI):

23237

UNIPROT ID:

Q7LC44

Full Name:

activity-regulated cytoskeleton-associated protein

Calculated MW:

396 aa, 45 kDa

Observed MW:

45-50 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 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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 : SH-SY5Y cells, mouse brain tissue, rat heart tissue, rat brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue, human brain tissue

Background Information

ARC, also named as KIAA0278 and Arg3.1, mediates endocytosis of neuronal AMPA-type glutamate receptors (AMPArs). It is required for consolidation of synaptic plasticity as well as formation of long-term memory. ARC plays a role in the regulation of cell morphology and cytoskeletal organization. It is required in the stress fiber dynamics and cell migration.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|---------------|-------------|
| Zhe-Zhe Zhang | 35574247 | Neural Plast | WB |
| Yuqian Shen | 33662272 | Mol Cell | WB |
| Liangcai Zhao | 35761156 | Mol Neurobiol | 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

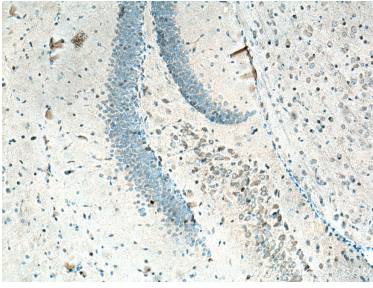
For technical support and original validation data for this product please contact:

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

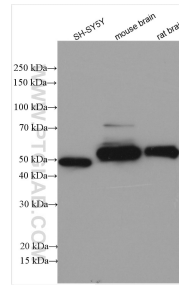
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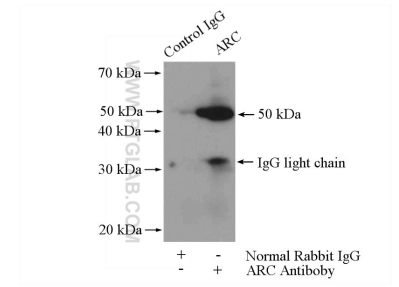
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16290-1-AP (ARC/ARG3.1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 16290-1-AP (ARC/ARG3.1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-ARC/ARG3.1 (IP:16290-1-AP, 4ug; Detection:16290-1-AP 1:300) with mouse brain tissue lysate 4000ug.