

For Research Use Only

# ARC Monoclonal antibody

Catalog Number: 66550-1-Ig

Featured Product

7 Publications



## Basic Information

Catalog Number:

66550-1-Ig

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

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:

50 kDa

Purification Method:

Protein G purification

CloneNo.:

1G4B5

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:1000-1:4000

IF/ICC 1:400-1:1600

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat, pig, rabbit

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 : Y79 cells, HEK-293 cells, Neuro-2a cells, pig brain tissue, mouse brain tissue, rat brain tissue, rabbit brain tissue, mouse cerebellum tissue, rat cerebellum tissue

IHC : mouse brain tissue,

IF/ICC : SH-SY5Y cells,

## Background Information

ARC, also named as KIAA0278 and Arg3.1, mediates endocytosis of neuronal AMPA-type glutamate receptors (AMPA). 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. Recent study shows that expression of Arc can regulate cognitive flexibility.

## Notable Publications

Author	Pubmed ID	Journal	Application
Chunling Yuan	36095961	Biomed Pharmacother	WB
Nisha S Pulimood	34607805	eNeuro	WB
Xiangying Liu	35951283	Neurotox Res	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

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

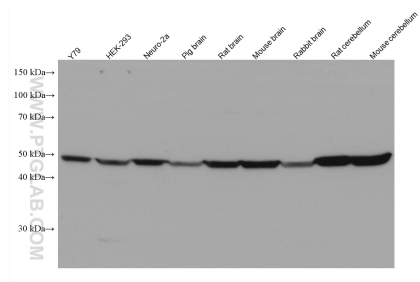
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

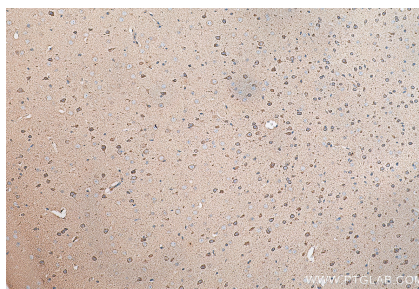
W: [ptgcn.com](http://ptgcn.com)

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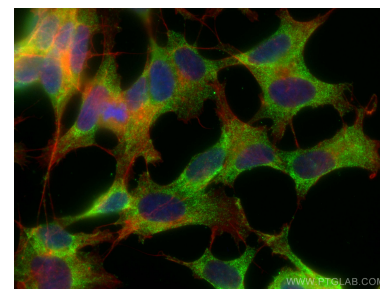
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66550-1-Ig (ARC antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66550-1-Ig (ARC antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using ARC antibody (66550-1-Ig, Clone: 1G4B5 ) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).