

For Research Use Only

ARC Monoclonal antibody

Catalog Number: 66550-1-Ig

Featured Product

7 Publications



Basic Information

Catalog Number: 66550-1-Ig	GenBank Accession Number: BC012321	Purification Method: Protein G purification
Size: 150ul, Concentration: 1000 ug/ml by Nanodrop and 769 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 23237	CloneNo.: 1G4B5
Source: Mouse	UNIPROT ID: Q7LC44	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:400-1:1600
Isotype: IgG1	Full Name: activity-regulated cytoskeleton-associated protein	
Immunogen Catalog Number: AG9445	Calculated MW: 396 aa, 45 kDa	
	Observed MW: 50 kDa	

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-Rs). 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

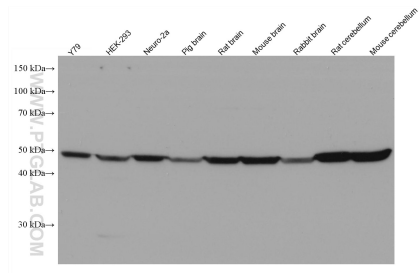
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

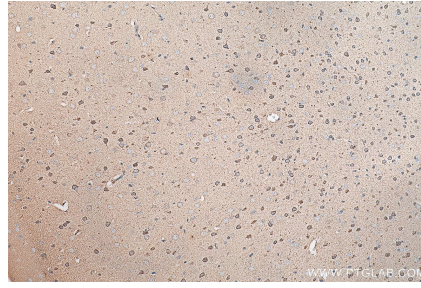
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

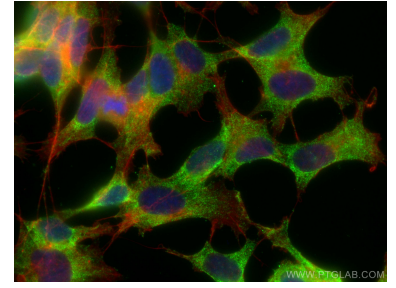
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 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).