



Rabbit Anti-ARC antibody

SL0385R

Product Name:	ARC
Chinese Name:	即刻早期基因ARC抗体
Alias:	ARG3.1; Arc; Arg 3.1; Activity regulated cytoskeletal associated protein; Activity regulated cytoskeletal protein; Activity-regulated cytoskeleton-associated protein; Activity regulated cytoskeletal-associated protein; ARC/ARG3.1; Activity-regulated gene 3.1 protein homolog; Activity regulated gene 3.1 protein homolog; Arg3.1; KIAA0278; ARC HUMAN; growth factor ARC.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000Flow-Cyt=1 μ g /test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	45kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ARC:101-200/396
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Activity-regulated cytoskeleton-associated protein (ARC)in the brain and learning and memory, researchers believe: ARC protein is by strengthening the function of synaptic links in order to save the memory, including learning and memory and emotion. At present, the scientists will also Activity-regulated cytoskeleton-associated protein used

to take drugs addiction.

Function:

Required for consolidation of synaptic plasticity as well as formation of long-term memory. Regulates endocytosis of AMPA receptors in response to synaptic activity. Required for homeostatic synaptic scaling of AMPA receptors (By similarity). Plays a role in the regulation of cell morphology and cytoskeletal organization. Required in the stress fiber dynamics and cell migration.

Subunit:

Interacts with SH3GL1/endophilin-2, SH3GL3/endophilin-3 and DNM2/DYN2.

Subcellular Location:

Cytoplasm, cytoskeleton. Endosome. Cytoplasmic vesicle, secretory vesicle, acrosome. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell projection, dendrite. Cell projection, dendritic spine. Cell junction, synapse.

Similarity:

Belongs to the ARC/ARG3.1 family.

SWISS:

Q7LC44

Gene ID:

23237

Database links:

[Entrez Gene: 23237](#) Human

[Entrez Gene: 11838](#) Mouse

[Entrez Gene: 54323](#) Rat

[Omim: 605235](#) Human

[SwissProt: Q7LC44](#) Human

[SwissProt: Q9WV31](#) Mouse

[SwissProt: Q63053](#) Rat

[Unigene: 40888](#) Human

[Unigene: 741621](#) Human

[Unigene: 25405](#) Mouse

[Unigene: 10086](#) Rat

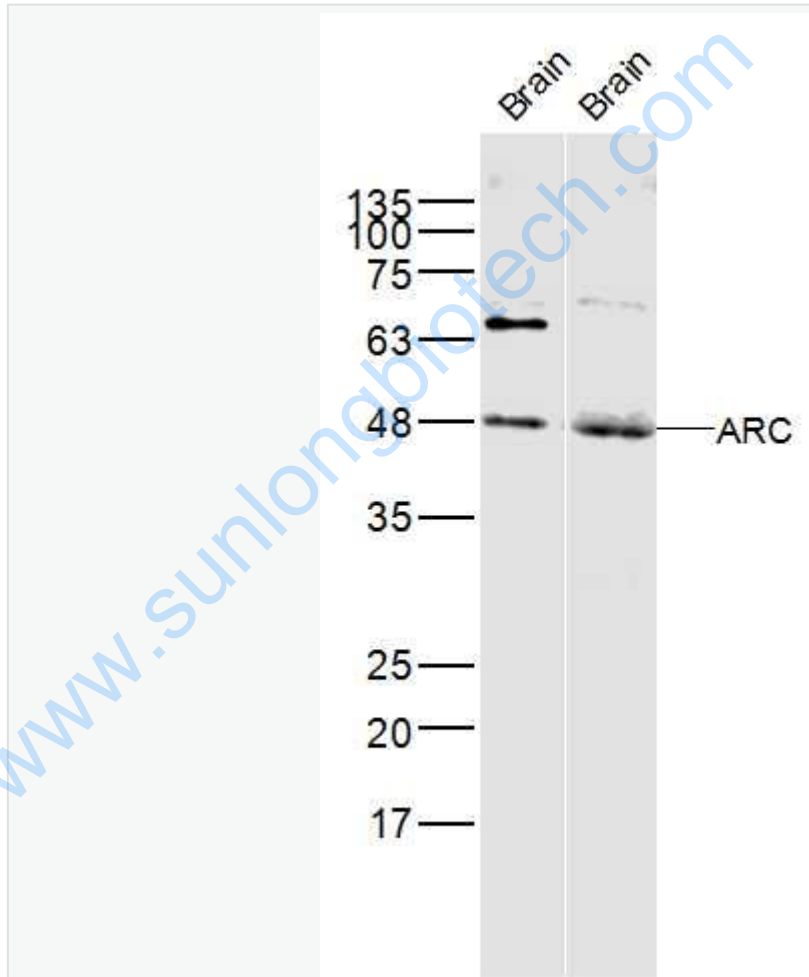
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

该蛋白与大脑的学习记忆有关, 研究人员认为:是ARC蛋白通过加强了突触的联系功能从而储存了这些记忆, 包括情感和学习记忆。

目前, 科学家也将该蛋白用于吸食毒品成瘾性的研究。

Picture:



Sample:

Brain (Rat) Lysate at 40 ug

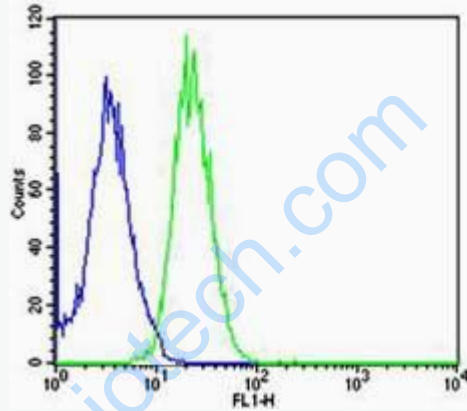
Brain (Mouse) Lysate at 40 ug

Primary: Anti-ARC (SL0385R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 45 kD

Observed band size: 45 kD



Cell: A549

Concentration: 1:100

Host/Isotype: Rabbit/IgG

Flow cytometric analysis of primary antibody (Cat#: bs-0385R) on A549 (green) compared with isotype control in the absence of primary antibody (blue) followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG(H+L) secondary antibody.