

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.
Research Area	Cell biology Neurobiology Cytoskeleton
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat(predicted:Human,Cow,Horse) WB=1:500-2000,ELISA=1:5000-10000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	45kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration immunogen	1mg/ml KLH conjugated synthetic peptide derived from human ARC: 101-200/396
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Mouse,Rat(predicted:Human,Cow,Horse)1M TBS(pH7.4) with 1% BSA, Mouse,Rat(predicted:Human,Cow,Horse)3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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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

Product Detail

[Omim: 605235](#) Human

[SwissProt: Q7LC44](#) Human

[SwissProt: Q9WV31](#) Mouse

[SwissProt: Q63053](#) Rat

[Unigene: 40888](#) Human

[Unigene: 741621](#) Human

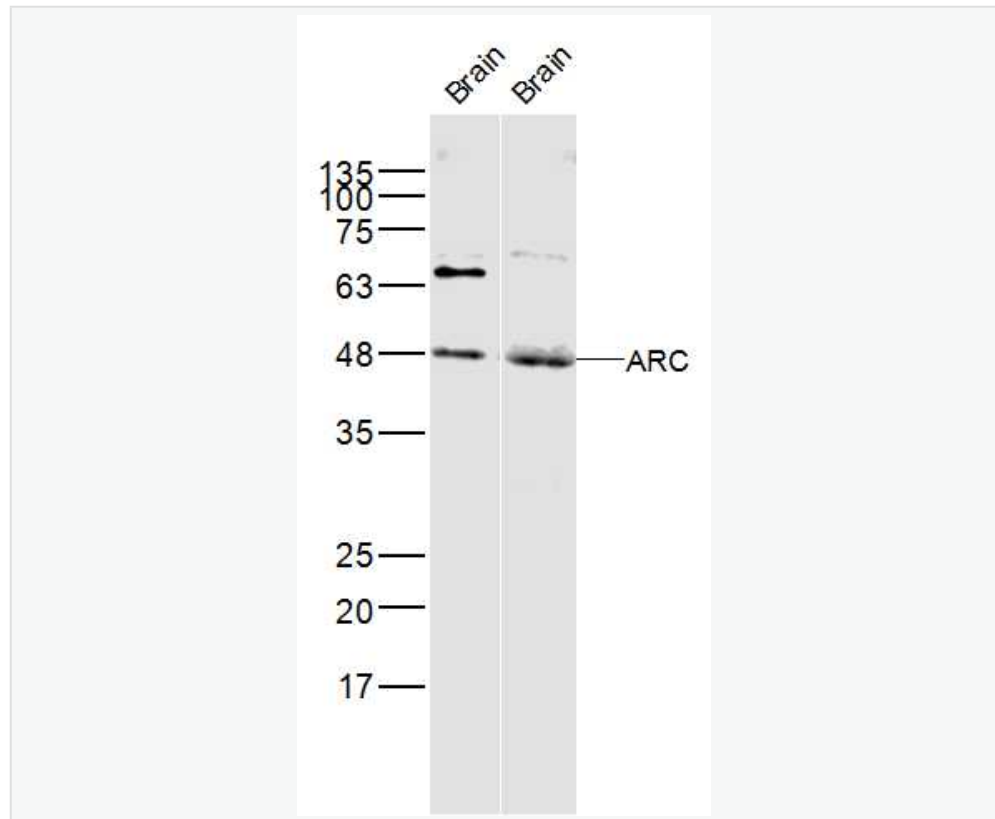
[Unigene: 25405](#) Mouse

[Unigene: 10086](#) Rat

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。

Product Picture



Sample:

Brain (Rat) Lysate at 40 ug

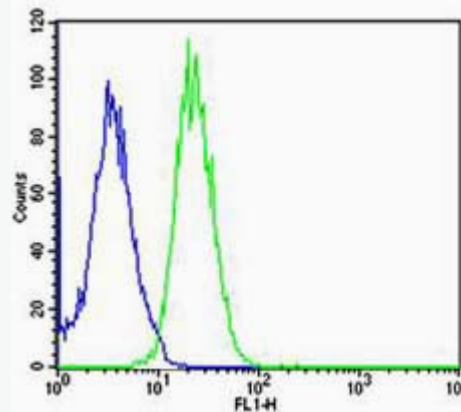
Brain (Mouse) Lysate at 40 ug

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#: SL0385R) 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 .



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