

Recombinant Human ARC

Catalog No: #GP10206



Package Size: #GP10206-1 100ug

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Description

Product Name	Recombinant Human ARC
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from N terminal 214 amino acids of human activity-regulated cytoskeleton-associated protein
Target Name	activity-regulated cytoskeleton-associated protein
Other Names	Arg3.1
Accession No.	Swissprot:Q7LC44Gene Accession:BC012321
Uniprot	Q7LC44
GenID	23237;
Storage	-20~-80°C, pH 7.6 PBS

Background

Arc (for activity-regulated cytoskeleton-associated protein) is a growth factor and immediate early gene that is enriched in brain. Arc mRNA and protein levels are induced by neuronal activity, which is necessary to stimulate neuroplasticity, indicating a potential role for Arc in activity-dependent changes in dendrite function. Arc expression has been detected in neuronal cell bodies and dendrites in the hippocampus, amygdala, hypothalamus, striatum and cortex. Arc has been shown to localize to the cytoskeleton of neuronal cells and appears to colocalize with F-Actin, although it may associate with an Actin-associated protein rather than directly with F-Actin. It has been shown that cocaine-stimulated neuronal activity results in increased Arc mRNA levels in striatum.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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