

Anti-Arc antibody ab203056

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Overview

Product name	Anti-Arc antibody
Description	Rabbit polyclonal to Arc
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), IHC-P
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide within Human Arc conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. Database link: Q7LC44
Positive control	Flow Cyt (Intra): A549 cells
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 1% BSA, 48.98% TBS, 1X
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab203056 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/20 - 1/100. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Use at 1/50 - 1/200 with fluorescent detection methods.

Target

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.

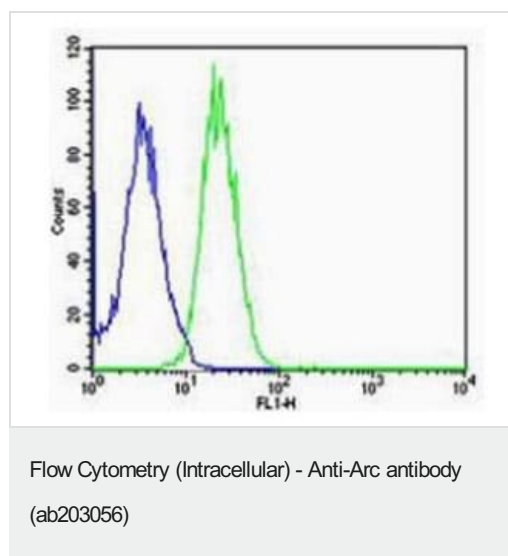
Sequence similarities

Belongs to the ARC/ARG3.1 family.

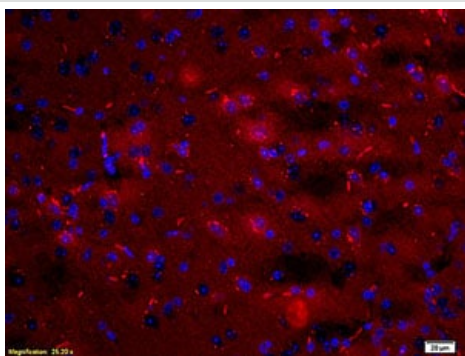
Cellular localization

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. Associated with the cell cortex of neuronal soma and dendrites. Enriched in postsynaptic density of dendritic spines. Associated with the sperm tail (By similarity). Enriched on the plasma membrane.

Images



A549 cells probed with ab203056 at 1/100 for 60 minutes at room temperature followed by Goat Anti-Rabbit IgG (H L) Alexa Fluor 488 Conjugated Secondary.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Arc antibody (ab203056)

Immunohistochemical analysis of formalin-fixed paraffin-embedded rat brain tissue labeling ARC with ab203056 at 1/200 dilution, followed by secondary antibody Goat Anti-Rabbit IgG, PE conjugated at 1:200 for 40 minutes at 37°C. DAPI (5ug/ml, blue) was used to stain the cell nuclei.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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