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RABBIT ANTI-ARG3.1 (IgG FRACTION) POLYCLONAL ANTIBODY

CATALOG NUMBER: AB15467P

LOT NUMBER:

QUANTITY: 500 μg

SPECIFICITY: ARG3.1 [Growth factor ARC, Activity regulated cytoskeleton].

BACKGROUND: Arc/Arg3.1 is an immediate-early gene whose mRNA is rapidly transcribed and targeted to dendrites of neurons as they engage in information processing and storage. Arc/Arg3.1 is known to be required for durable forms of synaptic plasticity and learning. Arc/Arg3.1 has been shown to be expressed in neuronal cell bodies and dendrites in the brain regions including striatum and cortex hippocampus.

IMMUNOGEN: Synthetic peptide corresponding to a region within the C-terminus of human ARG3.1 protein.

APPLICATIONS: Immunohistochemistry: 1:200-1:1,000
Optimal working dilutions must be determined by end user.

SPECIES REACTIVITIES: Rat. Other species have not yet been tested.

FORMAT: Purified immunoglobulin.

PRESENTATION: Lyophilized. Reconstitute with 50 μL of sterile distilled water. Centrifuge to remove any insoluble material. Contains no preservative.

STORAGE/HANDLING: Maintain lyophilized material frozen at -20°C to -70°C for up to 12 months after date of receipt. After reconstitution maintain at -20°C in undiluted aliquots for up to 6 months. Avoid repeated freeze/thaw cycles. Glycerol (1:1, ACS or better grade) can be added for additional stability.

REFERENCE: Chowdhury S, Shepherd JD, Okuno H, Lyford G, Petralia RS, Plath N, Kuhl D, Huganir RL, Worley PF (2006). Arc/Arg3.1 Interacts with the Endocytic Machinery to Regulate AMPA Receptor Trafficking *Neuron*. **52** pp. 445-459.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

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