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YB98620Mu01

Activity Regulated Cytoskeleton Associated Protein (ARC)

Organism: *Mus musculus* (Mouse)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

4th Edition (Revised in August, 2012)

[DESCRIPTION]

Protein Names: Activity Regulated Cytoskeleton Associated Protein

Synonyms: ARC

Species: Mouse

Size: 100 μ g

Source: *Escherichia coli*-derived

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

[PROPERTIES]

Residues: Arg47~Asn244 (Accession # Q9WV31), with N-terminal His-Tag.

Grade & Purity: >95%, 24 kDa as determined by SDS-PAGE reducing conditions.

Formulation: Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.

Endotoxin Level: <1.0 EU per 1 μ g (determined by the LAL method).

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

Predicted Molecular Mass: 24.1 kDa

Predicted isoelectric point: 5.5

[PREPARATION]

Reconstitute in sterile PBS, pH7.2-pH7.4.



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[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCES]

The target protein is fused with N-terminal His-Tag, its sequence is listed below.

MGHHHHHSGSEF-RHLL TEVSKQVERE LKGLHRSVGK LENLDGYVP TGDSQRWKS IKACLRCQE TIANLERWVK
REMHVWREVF YRLERWADRL ESMGGKYPVG SEPARHTVSV GVGPEPYCQ EADGYDYTVS PYAITPPAA GELPEQESVE
AQYQSWGPG EDGQSPGVD TQIFEDPREF LSHLEEYLRQ VGGSEEWLS QIQN