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Monoclonal Antibody to Pan MAGUK (77-299) - Purified

Catalog No.: AM20093PU-N

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: PDZ-domain containing proteins of the MAGUK (Membrane-Associated Guanylate Kinase) form a family of scaffolding proteins, which are often associated with cellular junctions. Their capacity to serve as platforms for organizing larger protein assemblies results from the presence of several protein-protein interaction domains (1).
PDZ-domain containing proteins of the MAGUK family target, anchor and cluster receptors and channels to subcellular sites (2).
Associations of glutamate receptors with MAGUKs have been described in the brain but not in the cochlea.

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls: SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N

Clone: S28-86

Immunogen: Fusion protein amino acids 77-299 of Human PSD-95/Sap90.

Format: **State:** Liquid purified Ig fraction.
Purification: Protein G Chromatography.
Buffer System: PBS, pH 7.4 containing 50% Glycerol as stabilizer and 0.09% Sodium Azide as preservative.

Applications: **Western blot:** 1 µg/ml
1 µg/ml was sufficient for detection of MAGUK proteins in 20 µg of Rat brain lysate by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Immunoprecipitation: 1.0-10 µg/ml
Immunofluorescence: 1.0-10 µg/ml
Immunocytochemistry: 0.1-1.0 µg/ml
Immunohistochemistry: 0.1-1.0 µg/ml
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Detects ~95-110Da protein (varies with cell background due to phosphorylation).
Exhibits cross-reactivity against recombinant PSD-95, Chapsyn-110, SAP97 and SAP102.
Species: Human, Mouse, Rat, Zebrafish and Xenopus.
Other species not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com

Storage: Upon receipt, store undiluted (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Bachmann A., Draga M., Grawe F., and Knust E. (2008) BMC Dev Biol. 8:55.
2. Davies C., Tingley D., Kachar B., Wenthold R.J., and Petralia R.S. (2001) Synapse. 40(4): 258-268.

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