

SAPAP1 (H-81): sc-25662

BACKGROUND

Members of the postsynaptic density-95 (PSD-95)/SAP90 family of membrane-associated guanylate kinase (MAGUK) proteins function as multimodular scaffolds that organize protein-signaling complexes at neuronal synapses. PSD-95/SAP90 binds guanylate kinase-associated protein (GKAP), also designated GK domain-binding protein, DAP-1- α , DAP-1- β , PSD-95 binding protein, PSD-95/SAP90 associated protein, or SAPAP1, through the guanylate kinase domain. SAPAP1 is expressed widely in neurons of the cortex and hippocampus and in the Purkinje and granule cells of the cerebellum. GKAP is localized specifically in the PSD of glutamatergic synapses, consistent with its direct interaction with PSD-95 family proteins.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DLGAP1 (human) mapping to 18p11.31; Dlgap1 (mouse) mapping to 17 E1.3.

SOURCE

SAPAP1 (H-81) is a rabbit polyclonal antibody raised against amino acids 570-650 of SAPAP1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SAPAP1 (H-81) is recommended for detection of SAPAP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SAPAP1 (H-81) is also recommended for detection of SAPAP1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SAPAP1 siRNA (h): sc-41997, SAPAP1 siRNA (m): sc-41998, SAPAP1 shRNA Plasmid (h): sc-41997-SH, SAPAP1 shRNA Plasmid (m): sc-41998-SH, SAPAP1 shRNA (h) Lentiviral Particles: sc-41997-V and SAPAP1 shRNA (m) Lentiviral Particles: sc-41998-V.

Molecular Weight of SAPAP1: 95/130 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.