

GRASP (H-55): sc-135025

BACKGROUND

GRASP (GRP1-associated scaffold protein, tamalin) is a 395 amino acid protein encoded by the human gene GRASP. GRASP is a scaffold protein that comprises multiple protein-interacting domains, including a 95 kDa postsynaptic density protein (PSD-95)/discs-large/ZO-1 (PDZ) domain, a leucine-zipper region and a carboxyl-terminal PDZ-binding motif. GRASP is involved with intracellular trafficking and contributes to the macromolecular organization of group 1 metabotropic glutamate receptors (mGluRs) at synapses. GRASP forms a heteromer composed of GRASP, PSCD2 and at least one mGluR-1. It also interacts with PSCD3, mGluR-2, mGluR-3 and mGluR-5. GRASP is highly expressed in brain and has lower levels of expression in lung, heart, embryo, kidney and ovary.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GRASP (human) mapping to 12q13.13; Grasp (mouse) mapping to 15 F2.

SOURCE

GRASP (H-55) is a rabbit polyclonal antibody raised against amino acids 216-270 mapping within an internal region of GRASP of human origin.

PRODUCT

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

APPLICATIONS

GRASP (H-55) is recommended for detection of GRASP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

GRASP (H-55) is also recommended for detection of GRASP in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for GRASP siRNA (h): sc-62423, GRASP siRNA (m): sc-62424, GRASP shRNA Plasmid (h): sc-62423-SH, GRASP shRNA Plasmid (m): sc-62424-SH, GRASP shRNA (h) Lentiviral Particles: sc-62423-V and GRASP shRNA (m) Lentiviral Particles: sc-62424-V.

Molecular Weight of GRASP: 43 kDa.

Positive Controls: mouse brain extract: sc-2253.

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.