

GRASP (G-15): sc-55952

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 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 form a heteromer composed of GRASP, PSCD2 and at least one mGluR1. It also interacts with PSCD3, mGluR2, mGluR3 and mGluR5. GRASP is highly expressed in brain and has lower levels of expression in lung, heart, embryo, kidney, and ovary.

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CHROMOSOMAL LOCATION

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

SOURCE

GRASP (G-15) is an affinity purified goat polyclonal antibody raised against a peptide 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.

Blocking peptide available for competition studies, sc-55952 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GRASP (G-15) 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), 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 (G-15) 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 donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.