

HRASLS2 (G-14): sc-168104

BACKGROUND

Phospholipase A₂s (PLA₂s) constitute a family of esterases that hydrolyze the sn-2-acyl ester bond in glycerophospholipid molecules. These enzymes are generally calcium-dependent and have been found both intra- and extracellularly. By hydrolyzing the sn-2 bond in glycerophospholipids, PLA₂s release fatty acids. One such fatty acid, arachidonic acid, generates substrates for the initiation of the arachidonic acid cascade that produces various eicosanoids, many of which are potent mediators of inflammation. HRASLS2 (HRAS-like suppressor 2), also known as PLA1/2-2, is a 162 amino acid cytoplasmic protein that belongs to the H-rev107 family. Expressed in liver, kidney, small intestine and colon, HRASLS2 exhibits PLA1/2 activity by catalyzing the calcium-independent hydrolysis of acyl groups in various phosphatidylcholines (PCs) and phosphatidylethanolamine (PE).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HRASLS2 (human) mapping to 11q12.3.

SOURCE

HRASLS2 (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HRASLS2 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-168104 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

HRASLS2 (G-14) is recommended for detection of HRASLS2 of 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); non cross-reactive with other HRASLS family members.

Suitable for use as control antibody for HRASLS2 siRNA (h): sc-96654, HRASLS2 shRNA Plasmid (h): sc-96654-SH and HRASLS2 shRNA (h) Lentiviral Particles: sc-96654-V.

Molecular Weight of HRASLS2: 17 kDa.

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.

PROTOCOLS

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