

STOML2 (V-19): sc-83049

BACKGROUND

Stomatin-like protein 2 (STOML2), SLP-2 or EPB72-like 2, is a 356 amino acid member of the mec-2 family of proteins. Expressed ubiquitously at low levels, STOML2 is highly expressed in heart, liver and pancreas. STOML2 is localized to the cytoplasm with some distribution on the membrane. STOML2 was first identified as an overexpressed protein in human endometrial adenocarcinoma. Changes in cell growth in samples with different levels of STOML2 indicate that STOML2 could play a role in endometrial tumorigenesis. STOML2 is also thought to play a role in regulating ion channel conductances or the organization of sphingolipid and cholesterol-rich lipid rafts.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: STOML2 (human) mapping to 9p13.3; Stoml2 (mouse) mapping to 4 A5.

RESEARCH USE

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

SOURCE

STOML2 (V-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of STOML2 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-83049 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

STOML2 (V-19) is recommended for detection of STOML2 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).

STOML2 (V-19) is also recommended for detection of STOML2 in additional species, including equine and porcine.

Suitable for use as control antibody for STOML2 siRNA (h): sc-76593, STOML2 siRNA (m): sc-76594, STOML2 shRNA Plasmid (h): sc-76593-SH, STOML2 shRNA Plasmid (m): sc-76594-SH, STOML2 shRNA (h) Lentiviral Particles: sc-76593-V and STOML2 shRNA (m) Lentiviral Particles: sc-76594-V.

Molecular Weight of STOML2: 39 kDa.

Positive Controls: HEL 92.1.7 cell lysate: sc-2270, A-431 whole cell lysate: sc-2201 or TF-1 cell lysate: sc-2412.

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.



Try **STOML2 (C-3): sc-376165**, our highly recommended monoclonal alternative to STOML2 (V-19).