

Vitrin (S-13): sc-137902

BACKGROUND

Vitrin (VIT) is a 678 amino acid secreted protein that exists as 4 alternatively spliced isoforms, and contains 2 VVFA domains and one LCCL domain. While it binds dermatan sulfate and chondroitin sulfate, Vitrin promotes matrix assembly and cell adhesiveness. The gene that encodes Vitrin consists of more than 118,000 bases and maps to human chromosome 2p22.2. Consisting of 237 million bases, chromosome 2 encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome, is due to mutations in the ALMS1 gene.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: VIT (human) mapping to 2p22.2; Vit (mouse) mapping to 17 E3.

SOURCE

Vitrin (S-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Vitrin of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-137902 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Vitrin (S-13) is recommended for detection of Vitrin isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with isoform Vitrin-3.

Suitable for use as control antibody for Vitrin siRNA (h): sc-95025, Vitrin siRNA (m): sc-155111, Vitrin shRNA Plasmid (h): sc-95025-SH, Vitrin shRNA Plasmid (m): sc-155111-SH, Vitrin shRNA (h) Lentiviral Particles: sc-95025-V and Vitrin shRNA (m) Lentiviral Particles: sc-155111-V.

Molecular Weight of Vitrin isoforms: 74/72/22/76 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) 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.

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.