

SCRN3 (E-11): sc-137749

BACKGROUND

SCRN3 (secernin 3), also known as SES3, is a 424 amino acid cytosolic protein that belongs to the peptidase C69 family and secernin subfamily. SCRN3 participates in exocytosis from peritoneal mast cells and is encoded by a gene that maps to human chromosome 2q31.1. As the second largest human chromosome, chromosome 2 consists of 237 million bases, 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: SCRN3 (human) mapping to 2q31.1; Scrn3 (mouse) mapping to 2 C3.

STORAGE

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

SOURCE

SCRN3 (E-11) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of SCRN3 of human origin.

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-137749 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SCRN3 (E-11) is recommended for detection of SCRN3 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 SCRN1 or SCRN2.

Suitable for use as control antibody for SCRN3 siRNA (h): sc-94583, SCRN3 siRNA (m): sc-153274, SCRN3 shRNA Plasmid (h): sc-94583-SH, SCRN3 shRNA Plasmid (m): sc-153274-SH, SCRN3 shRNA (h) Lentiviral Particles: sc-94583-V and SCRN3 shRNA (m) Lentiviral Particles: sc-153274-V.

Molecular Weight of SCRN3: 50 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.