

SH3YL1 (N-14): sc-135520

BACKGROUND

SH3YL1 (SH3 domain-containing YSC84-like protein 1), alternately known as RAY, is a 342 amino acid protein that plays a role in hair follicle formation. Expressed at high levels during meiosis, SH3YL1 is found in stomach, kidney, colon, small intestine and skin (where it localizes to the hair shaft, bulb and outer root sheath). SH3YL1 expression is highest during mid and late anagen phases of the hair-growth cycle and is found at lower levels during the catagen, telogen and early anagen phases. SH3YL1 contains one SH (Scr homology) 3 domain, belongs to the SH3YL1 family and interacts with SH3D19. Five SH3YL1 isoforms are produced as a result of alternative splicing events, and the gene encoding SH3YL1 maps to human chromosome 2, which 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 including Harlequin ichthyosis, Sitosterolemia and Alström syndrome.

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CHROMOSOMAL LOCATION

Genetic locus: SH3YL1 (human) mapping to 2p25.3; Sh3yl1 (mouse) mapping to 12 A2.

SOURCE

SH3YL1 (N-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of SH3YL1 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-135520 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SH3YL1 (N-14) is recommended for detection of SH3YL1 isoforms 1, 2 and 5 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 SH3YL1 isoforms 3 or 4.

SH3YL1 (N-14) is also recommended for detection of SH3YL1 isoforms 1, 2 and 5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SH3YL1 siRNA (h): sc-94818, SH3YL1 siRNA (m): sc-153443, SH3YL1 shRNA Plasmid (h): sc-94818-SH, SH3YL1 shRNA Plasmid (m): sc-153443-SH, SH3YL1 shRNA (h) Lentiviral Particles: sc-94818-V and SH3YL1 shRNA (m) Lentiviral Particles: sc-153443-V.

Molecular Weight of SH3YL1 isoforms: 37/35/27/25/11 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.

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.