



APR3 (Q-14): sc-103390

BACKGROUND

APR3 (apoptosis-related protein 3), also known as C2orf28 or p18, is a 229 amino acid single-pass membrane protein that contains one EGF-like domain and exists as two alternatively spliced isoforms. Expressed at a low level in hematopoietic cell lines, APR3 is thought to be involved in apoptosis and may also play a role in hematopoietic development and differentiation. The gene encoding APR3 maps to human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene, while the lipid metabolic disorder sitosterolemia is associated with defects in the ABCG5 and ABCG8 genes. Additionally, an extremely rare recessive genetic disorder, Alström syndrome, is caused by mutations in the ALMS1 gene, which maps to chromosome 2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C2orf28 (human) mapping to 2p23.3; 0610007C21Rik (mouse) mapping to 5 B1.

STORAGE

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

SOURCE

APR3 (Q-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of APR3 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-103390 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

APR3 (Q-14) is recommended for detection of APR3 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).

Suitable for use as control antibody for APR3 siRNA (h): sc-94808, APR3 siRNA (m): sc-105083, APR3 shRNA Plasmid (h): sc-94808-SH, APR3 shRNA Plasmid (m): sc-105083-SH, APR3 shRNA (h) Lentiviral Particles: sc-94808-V and APR3 shRNA (m) Lentiviral Particles: sc-105083-V.

Molecular Weight of APR3: 25 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.

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.