SANTA CRUZ BIOTECHNOLOGY, INC.

A2LD1 (I-16): sc-241768



The Power to Question

BACKGROUND

A2LD1 (AIG2-like domain 1), also known as γ -glutamylaminecyclotransferase (GGACT), is a 153 amino acid protein belonging to the γ -glutamylcyclotransferase family. A2LD1 contains two exons, with only the second exon coding, and spans 2.2 kb. Consisting of a monomer subunit, A2LD1 participates in acyltransferase and γ -glutamylcyclotransferase activities. A2LD1 assists with the breakdown of proteins cross-linked by transglutaminases. A2LD1 also catalyzes the formation of 5-oxoproline from L- γ -glutamyl-L- ϵ -lysine, but is inactive with L- γ -glutamyl-L- α -amino acid substrates, such as L- γ -glutamyl-L- α -cysteine and L- γ -glutamyl-L- α -alanine. A2LD1 is encoded by a gene that maps to human chromosome 13q32.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: A2LD1 (human) mapping to 13q32.3; a2ld1 (mouse) mapping to 14 E5.

SOURCE

A2LD1 (I-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of A2LD1 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 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-241768 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

A2LD1 (I-16) is recommended for detection of A2LD1 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 A2LD1 siRNA (m): sc-141496, A2LD1 shRNA Plasmid (m): sc-141496-SH and A2LD1 shRNA (m) Lentiviral Particles: sc-141496-V.

Molecular Weight of A2LD1: 17 kDa.

RRECOMMENDED 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) Immunofluo-rescence: 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.