

# A2LD1 (C-16): sc-241769

## BACKGROUND

A2LD1 (AIG2-like domain 1), also known as  $\gamma$ -glutamylaminocyclotransferase (GGACT), is a 153 amino acid protein belonging to the  $\gamma$ -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  $\gamma$ -glutamylcyclotransferase activities. A2LD1 assists with the breakdown of proteins cross-linked by transglutaminases. A2LD1 also catalyzes the formation of 5-oxoproline from L- $\gamma$ -glutamyl-L- $\epsilon$ -lysine, but is inactive with L- $\gamma$ -glutamyl- $\alpha$ -amino acid substrates, such as L- $\gamma$ -glutamyl-L- $\alpha$ -cysteine and L- $\gamma$ -glutamyl-L- $\alpha$ -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 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus 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  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-241769 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

A2LD1 (C-16) is recommended for detection of A2LD1 of mouse 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.

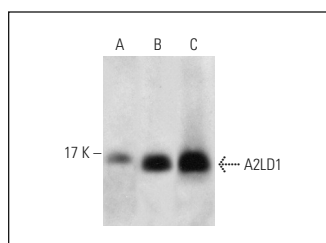
Molecular Weight of A2LD1: 17 kDa.

Positive Controls: THP-1 cell lysate: sc-2238, DU 145 cell lysate: sc-2268 or human kidney extract: sc-363764.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

## DATA



A2LD1 (C-16): sc-241769. Western blot analysis of A2LD1 expression in DU 145 (A) and THP-1 (B) whole cell lysates and human kidney tissue extract (C).

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.