# ACAD-11 (E-15): sc-99763



The Power to Question

## **BACKGROUND**

The Acyl-CoA dehydrogenase (ACAD) family of enzymes are involved in the catabolism of fatty acids and amino acids and they provide a major source of energy for the heart and skeletal muscle. ACAD-11 (acyl-Coenzyme A dehydrogenase family member 11) is a 780 amino acid member of the ACAD family that is expressed as three alternatively spliced isoforms and is encoded by a gene that maps to chromosome 3. Chromosome 3 is made up of about 214 million bases encoding over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

## **REFERENCES**

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# **CHROMOSOMAL LOCATION**

Genetic locus: ACAD11 (human) mapping to 3q22.1; Acad11 (mouse) mapping to 9 F1.

# SOURCE

ACAD-11 (E-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ACAD-11 of human origin.

#### **PRODUCT**

Each vial contains 100  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99763 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

ACAD-11 (E-15) is recommended for detection of ACAD-11 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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); non cross-reactive with other ACAD family members.

ACAD-11 (E-15) is also recommended for detection of ACAD-11 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ACAD-11 siRNA (h): sc-78066, ACAD-11 siRNA (m): sc-140791, ACAD-11 shRNA Plasmid (h): sc-78066-SH, ACAD-11 shRNA Plasmid (m): sc-140791-SH, ACAD-11 shRNA (h) Lentiviral Particles: sc-78066-V and ACAD-11 shRNA (m) Lentiviral Particles: sc-140791-V.

Molecular Weight of ACAD-11: 87 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.



Try ACAD-11 (B-12): sc-514027 or ACAD-11 (C-7): sc-514357, our highly recommended monoclonal alternatives to ACAD-11 (E-15).

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