# ACAD-11 (C-7): sc-514357



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 3 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 (C-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 208-229 within an internal region of ACAD-11 of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g$   $lgG_{2a}$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-514357 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

#### **APPLICATIONS**

ACAD-11 (C-7) is recommended for detection of ACAD-11 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

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.

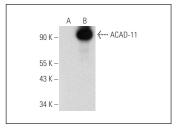
Molecular Weight of ACAD-11: 87 kDa.

Positive Controls: ACAD-11 (m): 293T Lysate: sc-118181.

## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker^M 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 m-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

#### **DATA**



ACAD-11 (C-7): sc-514357. Western blot analysis of ACAD-11 expression in non-transfected: sc-117752 (A) and mouse ACAD-11 transfected: sc-118181 (B) 293T whole cell lysates.

## **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 for detailed protocols and support products.