

# FAR1 (B-23): sc-133573

## BACKGROUND

The conversion of fatty acids to fatty alcohols is required for the synthesis of wax monoesters and ether lipids. Members of the fatty acyl-CoA reductase family, including FAR1 (fatty acyl-CoA reductase 1) and FAR2 (fatty acyl-CoA reductase 2), play a role in catalyzing the reduction of saturated fatty acyl-CoA with chain length C16 or C18 to fatty alcohols. FAR1, also known as male sterility domain-containing protein 2 (MLSTD2) or short chain dehydrogenase/reductase family 10E, member 1 (SDR10E1), is a 515 amino acid single-pass membrane protein that localizes to the peroxisome, FAR1 is suggested to be essential for providing fatty alcohols required for ether bond formation in ether glycerophospholipid synthesis. The gene encoding FAR1 is located on chromosome 11, which comprises nearly 4% of the human genome.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: FAR1 (human) mapping to 11p15.2; Far1 (mouse) mapping to 7 F1.

## SOURCE

FAR1 (B-23) is a Protein A purified rabbit polyclonal antibody raised against synthetic FAR1 peptide of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

FAR1 (B-23) is recommended for detection of FAR1 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FAR1 siRNA (h): sc-96316, FAR1 siRNA (m): sc-145070, FAR1 shRNA Plasmid (h): sc-96316-SH, FAR1 shRNA Plasmid (m): sc-145070-SH, FAR1 shRNA (h) Lentiviral Particles: sc-96316-V and FAR1 shRNA (m) Lentiviral Particles: sc-145070-V.

Molecular Weight (predicted) of FAR1: 59 kDa.

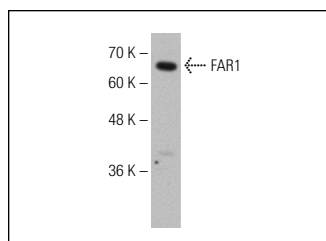
Molecular Weight (observed) of FAR1: 65 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

## 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).

## DATA



FAR1 (B-23): sc-133573. Western blot analysis of FAR1 expression in Hep G2 whole cell lysate.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.