

FAR2 (B-24): sc-133574

BACKGROUND

The conversion of fatty acids to fatty alcohols is required for the synthesis of wax monoesters and ether lipids. Fatty acyl-CoA reductase 2 (FAR2), also known as male sterility domain-containing protein 1 (MLSTD1), is a 515 amino acid protein that catalyzes the reduction of saturated fatty acyl-CoA with chain length C16, C18 and C10-C14 to fatty alcohols. FAR2, which is a member of the fatty acyl-CoA reductase family, is a multi-pass membrane protein and has been shown to localize to the peroxisome and the endoplasmic reticulum. The highest levels of FAR2 were detected in brain and eyelid, which contains wax-laden meibomian glands. The gene encoding FAR2 is located on chromosome 12, which comprises nearly 4.5% of the human genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAR2 (human) mapping to 12p11.22; Far2 (mouse) mapping to 6 G3.

SOURCE

FAR2 (B-24) is an affinity purified rabbit polyclonal antibody raised against synthetic FAR2 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

FAR2 (B-24) is recommended for detection of FAR2 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).

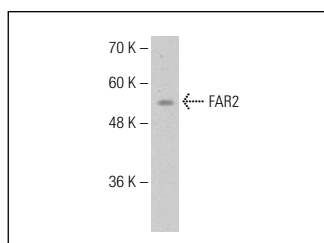
Suitable for use as control antibody for FAR2 siRNA (h): sc-96223, FAR2 siRNA (m): sc-145071, FAR2 shRNA Plasmid (h): sc-96223-SH, FAR2 shRNA Plasmid (m): sc-145071-SH, FAR2 shRNA (h) Lentiviral Particles: sc-96223-V and FAR2 shRNA (m) Lentiviral Particles: sc-145071-V.

Molecular Weight of FAR2: 59 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).

DATA



FAR2 (B-24): sc-133574. Western blot analysis of FAR2 expression in Jurkat 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 or our catalog for detailed protocols and support products.