SANTA CRUZ BIOTECHNOLOGY, INC.

FMO5 (Q-16): sc-103495

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The flavin containing monooxygenase family consists of five gene products, FMO1-5, that are major enzymatic oxidants involved in the metabolism of various therapeutics. Localizing to microsomal and endoplasmic reticulum membranes, FMO5 (flavin containing monooxygenase 5), also known as dimethylaniline monooxygenase [N-oxide-forming] 5, hepatic flavin-containing monooxygenase 5 or dimethylaniline oxidase 5, is a 533 amino acid protein belonging to the FMO family. Expressed in adult and fetal liver, FMO5 is unlike other FMO family members because it does not function as a drug-metabolizing enzyme. FMO5 binds FAD as a cofactor and is encoded by a gene located on human chromosome 1q21.1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FMO5 (human) mapping to 1q21.1; Fmo5 (mouse) mapping to 3 F2.2.

SOURCE

FMO5 (Q-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FMO5 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-103495 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FMO5 (Q-16) is recommended for detection of FMO5 of mouse, rat 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); non cross-reactive with other FMO family members.

FMO5 (Q-16) is also recommended for detection of FMO5 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for FMO5 siRNA (h): sc-88012, FMO5 siRNA (m): sc-105366, FMO5 shRNA Plasmid (h): sc-88012-SH, FMO5 shRNA Plasmid (m): sc-105366-SH, FMO5 shRNA (h) Lentiviral Particles: sc-88012-V and FMO5 shRNA (m) Lentiviral Particles: sc-105366-V.

Molecular Weight of FMO5: 60 kDa.

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™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) 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™ 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.