

CYP2C8 (E-13): sc-164136

BACKGROUND

The cytochrome P450 proteins (CYPs) are monooxygenases that catalyze reactions involved in both drug metabolism and in the synthesis of cholesterol, steroids and other lipids. P450 enzymes are classified into subfamilies, such as CYP1A and CYP2A, based on their sequence similarities. CYP2C8 (cytochrome P450, family 2, subfamily C, polypeptide 8), CPC8 or MP-12/MP-20, is a 490 amino acid protein that localizes to the membrane of both the endoplasmic reticulum and the microsome and belongs to the cytochrome P450 family. Using heme groups as cofactors, CYP2C8 functions as a heme-thiolate monooxygenase that is involved in NADPH-dependent electron transport and is able to oxidize several compounds, including steroids, fatty acids, and xenobiotics.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CYP2C8 (human) mapping to 10q23.33.

SOURCE

CYP2C8 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CYP2C8 of human origin.

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-164136 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CYP2C8 (E-13) is recommended for detection of CYP2C8 of 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 CYP2C9, CYP2C18 or CYP2C19.

Suitable for use as control antibody for CYP2C8 siRNA (h): sc-90787, CYP2C8 shRNA Plasmid (h): sc-90787-SH and CYP2C8 shRNA (h) Lentiviral Particles: sc-90787-V.

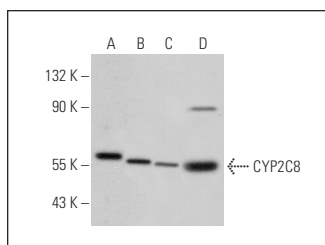
Molecular Weight of CYP2C8: 56 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or K-562 whole cell lysate: sc-2203.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



CYP2C8 (E-13): sc-164136. Western blot analysis of CYP2C8 expression in T-47D (A), HeLa (B), Jurkat (C) and K-562 (D) 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 or our catalog for detailed protocols and support products.