

CYP26B1 (N-13): sc-167572

BACKGROUND

The cytochrome P450 proteins (CYPs) are monooxygenases that catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. P450 enzymes are classified into subfamilies based on sequence similarity. CYP26B1, also referred to as cytochrome P450 retinoic acid-inactivating 2 (P450RAI2) or CYP26A2, is a 512 amino acid major retinoic acid catabolic enzyme. CYP26B1 is involved in the specific inactivation of all-*trans*-retinoic acid (RA) as well as the generation of several hydroxylated forms of RA. Localized to the endoplasmic reticulum membrane and microsomal membrane, CYP26B1 is expressed in brain, with highest expression in cerebellum and pons.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CYP26B1 (human) mapping to 2p13.2; Cyp26b1 (mouse) mapping to 6 C3.

SOURCE

CYP26B1 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CYP26B1 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-167572 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CYP26B1 (N-13) is recommended for detection of CYP26B1 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 CYP26A1 or CYP26C1.

CYP26B1 (N-13) is also recommended for detection of CYP26B1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CYP26B1 siRNA (h): sc-94853, CYP26B1 siRNA (m): sc-142665, CYP26B1 shRNA Plasmid (h): sc-94853-SH, CYP26B1 shRNA Plasmid (m): sc-142665-SH, CYP26B1 shRNA (h) Lentiviral Particles: sc-94853-V and CYP26B1 shRNA (m) Lentiviral Particles: sc-142665-V.

Molecular Weight of CYP26B1: 57 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.

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.


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Try **CYP26B1 (2G7): sc-293493**, our highly recommended monoclonal alternative to CYP26B1 (N-13).