CYP2B10 (9.14): sc-73546

**BACKGROUND**

The cytochrome P450 (CYP2) superfamily is one of three enzyme systems which metabolize the fatty acid arachidonic acid (AA) to vascular tone regulators. CYP2 are monooxygenase enzymes that require several cofactors such as nicotinamide adenine dinucleotide phosphate (NADPH) and P450 reductase. Epoxigenases are members of the CYP2 family that metabolize AA to epoxy-eicosatrienoic acid, and omega-hydroxylases are members of the CYP2 family that produce 19- and 20-hydroxyeicosatetraenoic acids. The CYP2 family members are part of the microsomal drug metabolising system responsible for oxidation of many therapeutic agents as well as steroids, fatty acids and many other endogenous substances. CYP2B10 is a member of the CYP2 family that comprise the major phenobarbital-inducible hepatic cytochromes P450s.

**CHROMOSOMAL LOCATION**

Genetic locus: Cyp2b10 (mouse) mapping to 7 A3.

**SOURCE**

CYP2B10 (9.14) is a mouse monoclonal antibody raised against liver cytochrome P4502B1 and 282 of rat origin.

**PRODUCT**

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

**APPLICATIONS**

CYP2B10 (9.14) is recommended for detection of CYP2B10 of mouse origin, and CYP2B1 and CYP2B2 of rat 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 immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of CYP2B10: 50 kDa.

Positive Controls: rat liver extract: sc-2395 or mouse liver extract: sc-2256.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG AB 100X with UltraCruz® Blocking Reagent: sc-2035, UltraCruz® Hard-set Mounting Medium: sc-359850. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG AB 100X with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG AB 100X with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

CYP2B10 (9.14): sc-73546. Western blot analysis of CYP2B10 expression in rat liver (A) and mouse liver (B) tissue extracts.

CYP2B10 (9.14): sc-73546. Immunoperoxidase staining of formalin fixed, paraffin-embedded mouse liver tissue showing cytoplasmic staining of hepatocytes and hepatic sinusoidal cells (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded rat liver tissue showing cytoplasmic staining of hepatocytes (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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