CYP4A1/A2/A3 (clo4): sc-53247

**BACKGROUND**

In animals, P-450 enzymes serve two major functions: biosynthesis of steroids, fatty acids and bile acids and the metabolism of endogenous and a wide variety of exogenous substrates, such as toxins and drugs. The four major families involved in drug metabolism are CYP 1, 2, 3 and 4. The hepatic CYP4A enzymes are important fatty acid and prostanoid oxi-hydroxylases that are highly inducible by fibric acid hypolipidemic agents and other peroxisome proliferators. In humans, 4A1, 4A2 and 4A3 have been cloned from liver, kidney and testis and are detected in renal, hepatic and brain microvessels.

**REFERENCES**


**SOURCE**

CYP4A1/A2/A3 (clo4) is a mouse monoclonal antibody raised against liver cytochrome P450 4A2 and 4A3 of rat origin.

**PRODUCT**

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

CYP4A1/A2/A3 (clo4) is available conjugated to agarose (sc-53247 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53247 HRP), 200 µg/ml, for WB, HICP and ELISA; to either phycoerythrin (sc-53247 PE), fluorescein (sc-53247 FITC), Alexa Fluor® 488 (sc-53247 AF488), Alexa Fluor® 546 (sc-53247 AF546), Alexa Fluor® 594 (sc-53247 AF594) or Alexa Fluor® 647 (sc-53247 AF647), 200 µg/ml, for WB (RGB), IF, HICP and FCM; and to either Alexa Fluor® 680 (sc-53247 AF680) or Alexa Fluor® 790 (sc-53247 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

CYP4A1/A2/A3 (clo4) is recommended for detection of CYP4A1, CYP4A2 and CYP4A3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Molecular Weight of CYP4A1: 50 kDa.

Molecular Weight of CYP4A2: 52 kDa.

Molecular Weight of CYP4A3: 54 kDa.

Positive Controls: rat liver extract: sc-2395 or rat kidney extract: sc-2394.

**STORAGE**

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

**IMPORTANT SAFETY INFORMATION**

For research use only, not for use in diagnostic procedures. See our web site at www.scbt.com for detailed protocols and support products.

**SELECT PRODUCT CITATIONS**


