CYP4A (E-6): sc-271983

BACKGROUND
Cytochrome P450 proteins are heme-thiolate monooxygenases that mediate NADPH-dependent electron transport and function to oxidize a variety of structurally unrelated compounds, including steroids, fatty acids and xenobiotics. Specifically, cytochrome P450s are responsible for metabolizing arachidonic acid to hydroxyeicosatetraenoic acid (a regulator of blood pressure) and epoxyeicosatrienoic acid (a molecule involved in signaling events). The CYP4A family of cytochrome P450 proteins contains two human proteins and multiple murine proteins, including CYP4A10, CYP4A12A, CYP4A12B, CYP4A14, CYP4A29, CYP4A31, CYP4A32 and CYP4A30B, all of which may be involved in the metabolism of fatty acids.

REFERENCES

SOURCE
CYP4A (E-6) is a mouse monoclonal antibody raised against amino acids 301-507 mapping at the C-terminus of CYP4A14 of mouse 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.

CYP4A (E-6) is available conjugated to agarose (sc-271983 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271983 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271983 PE), fluorescein (sc-271983 FITC), Alexa Fluor® 546 (sc-271983 AF546), Alexa Fluor® 594 (sc-271983 AF594) or Alexa Fluor® 647 (sc-271983 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-271983 AF680) or Alexa Fluor® 790 (sc-271983 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS
CYP4A (E-6) is recommended for detection of a broad range of CYP4A family members of mouse and rat origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30:1-3000).

Molecular Weight of CYP4A family members: 50-60 KDa.


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

SELECT PRODUCT CITATIONS

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

DATA

ACCESS THE PRODUCT CATALOG
www.scbt.com