CYP3A5 (F18 P3 B6): sc-53616

**BACKGROUND**

CYP3A genes encode cytochrome P450 monooxygenases, enzymes which catalyze drug metabolism and the synthesis of cholesterol, steroids and other lipids. CYP3A (cytochrome P450, family 3, subfamily A) is one of the most abundant P450 enzymes in human liver. The CYP3A cluster consists of four genes: CYP3A43, CYP3A44, CYP3A7 and CYP3A9, and two pseudogenes: CYP3A5P1 and CYP3A5P2. The CYP3A cluster maps to gene locus 7q22.1.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CYP3A5 (human) mapping to 7q22.1.

**SOURCE**

CYP3A5 (F18 P3 B6) is a mouse monoclonal antibody raised against the C-terminus of CYP3A5 of human origin.

**PRODUCT**

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

CYP3A5 (F18 P3 B6) is available conjugated to agarose (sc-53616 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53616 HRP), 200 µg/ml, for WB, HRP and ELISA; to either phycoerythrin (sc-53616 FITC), fluorescein (sc-53616 FITC), Alexa Fluor® 488 (sc-53616 AF488), Alexa Fluor® 546 (sc-53616 AF546), Alexa Fluor® 594 (sc-53616 AF594) or Alexa Fluor® 647 (sc-53616 AF647), 200 µg/ml, for WB (RGB), IF, HRP and FCM; and to either Alexa Fluor® 680 (sc-53616 AF680) or Alexa Fluor® 790 (sc-53616 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**RESEARCH USE**

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

**APPLICATIONS**

CYP3A5 (F18 P3 B6) is recommended for detection of Cytochrome P4503A5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:500), 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).

Suitable for use as control antibody for CYP3A5 siRNA (h): sc-44703, CYP3A5 shRNA Plasmid (h): sc-44703-SH and CYP3A5 shRNA (h) Lentiviral Particles: sc-44703-V.

Molecular Weight of CYP3A5: 57 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, c4 whole cell lysate: sc-364186 or Caco-2 cell lysate: sc-2262.

**RECOMMENDED SUPPORT REAGENTS**

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


**DATA**

CYP3A5 (F18 P3 B6) Western blot analysis of CYP3A5 expression in Hep G2 (A), c4 (B) and Caco-2 (C) whole cell lysates.

**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.