CYP3A5 (F18 P3 B6): sc-53616

CYP3A genes encode monoxygenases, enzymes which catalyze drug metabolism and the synthesis of cholesterol, steroids and other lipids. CYP3A (cytochrome P450, family 3, subfamily A), the most abundant p450 enzyme in human liver, is responsible for the metabolism of more than 50% of all clinical drugs. CYP3A members localize in organs that associate with drug disposition, including the liver, gastrointestinal tract and kidney. 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 human CYP3A5.

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.

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, IHC(+) and ELISA; to either phycoerythrin (sc-53616 PE), 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, IHC(+) 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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APPLICATIONS
CYP3A5 (F18 P3 B6) is recommended for detection of Cytochrome P4503A5 of human 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).

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: 1) Western Blotting: use m-IgG HRP-BP: sc-516102 or m-IgG HRP-BP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG HRP-BP-ITC: sc-516140 or m-IgG HRP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium; sc-24941 or UltraCruz® Hard-set Mounting Medium; sc-359850. 4) Immunohistochemistry: use m-IgG HRP-BP: sc-516102 with DAB, 50X: sc-24982 and Immunohistoamount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA

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.