CYP1A2 (D-3): sc-393783

**BACKGROUND**

CYP1A2, also called cytochrome P450 1A2, is a heme-thiolate monoxygenase enzyme involved in the NADPH-dependent electron transport pathway of liver microsomes. A member of the cytochrome P450 family, CYP1A2 oxidizes fatty acids, steroids and xenobiotics. It is also involved in the metabolism of imiprimine, propranolol and clozapine. CYP1A2 localizes to the membrane of the endoplasmic reticulum. It is induced by 3-methylcholanthrene, Insulin, imiprimine, fluvoxamine and cimetidine. In addition, the involvement of CYP1A2 in the metabolism of estrogen is associated with a reduced risk of breast cancer.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CYP1A2 (human) mapping to 15q24.1; Cyp1a2 (mouse) mapping to 9 B.

**SOURCE**

CYP1A2 (D-3) is a mouse monoclonal antibody raised against amino acids 246-315 mapping within an internal region of CYP1A2 of human 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.

**RESEARCH USE**

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

**APPLICATIONS**

CYP1A2 (D-3) is recommended for detection of CYP1A2 of mouse, rat and human 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).

Suitable for use as control antibody for CYP1A2 siRNA (h): sc-41485, CYP1A2 siRNA (m): sc-41486, CYP1A2 shRNA Plasmid (h): sc-41485-SH, CYP1A2 shRNA Plasmid (m): sc-41486-SH, CYP1A2 shRNA (h) Lentiviral Particles: sc-41485-V and CYP1A2 shRNA (m) Lentiviral Particles: sc-41486-V.

Molecular Weight of CYP1A2: 54 kDa.

Positive Controls: human liver extract: sc-363766 or rat liver extract: sc-2395.

**RECOMMENDED SUPPORT REAGENTS**

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


**DATA**


**STORAGE**

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