



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Cytochrome P450 1A2. Mouse Monoclonal Antibody

CYP1A2, P450-P3, P(3)450, P450 4

BACKGROUND

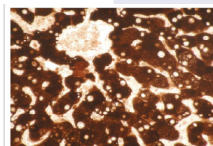
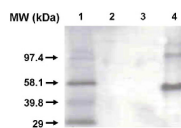
P450 enzymes constitute a family of monooxygenase enzymes that are involved in the metabolism of a wide array of endogenous and xenobiotic compounds. Several P450 enzymes have been classified by sequence similarities as members of the CYP1A and CYP2A subfamilies. NADPH cytochrome 450 reductase is a microsomal enzyme responsible for the transfer of electrons from NADPH to cytochrome P450 enzymes during the P450 catalytic cycle. NADPH cytochrome P450 reductase is localized to the endoplasmic reticulum where it is also able to transfer electrons to heme oxygenase and cytochrome β 5. NADPH cytochrome P450 reductase is structurally related to two separate flavoprotein families, ferredoxin nucleotide reductase (FNR) and flavodoxin. Electron transfer of NADPH cytochrome P450 reductase requires the binding of two flavin cofactors, FAD and FMN, to the FNR and flavodoxin domains, respectively.

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with rat cytochrome p450 proteins and mouse myeloma Ag8563 cells.

Left: Western blot using CYP1A2 antibody (Cat. No. X2046M) on recombinant (2) CYP1B1, (3) CYP1A1 and (4) CYP1A2 (0.5 pmol per lane).

Right: Immunohistochemical staining of formalin-fixed, paraffin-embedded normal human liver tissue section.



ORDERING INFORMATION

CATALOG NUMBER

X2046M

SIZE

200 μ g

FORM

Unconjugated

HOST/CLONE

Mouse Clone 3B8C1

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG1

APPLICATIONS

Western Blot, Immunohistochemistry

SPECIES REACTIVITY

Human

ACCESSION NUMBER

Human P05177

POSITIVE CONTROL/TISSUE EXPRESSION

Normal human liver sections

COMMENTS

Antibody can be used for Western blotting (1-2 µg/ml) and immunohistochemistry (1-5 µg/ml). Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Peng, W.X., et al. (2003). Evidence of the involvement of human liver microsomes CYP1A2 in the mono-hydroxylation of daidzein. Clin. Chim. Acta. 334(1-2); 77-85.
2. Hu, M., et al. Identification of CYP1A2 as the main isoform for the phase I hydroxylated metabolism of genistein and a prodrug converting enzyme of methylated isoflavones. Drug Metab Dispos. 31(7); 924-931.
3. Wei, C., et al. CYP1A2 is expressed along with CYP1A1 in the human lung. Cancer Lett. 171(1);113-120.

PRODUCT SPECIFIC REFERENCES