



# 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

### SZABO-SCANDIC HandelsgmbH

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**Cytochrome P450 4F11. Mouse Monoclonal Antibody**  
CYPIVF11; EC 1.14.14.1

**BACKGROUND**

The cytochrome P450 proteins (CYPs) are monooxygenases that catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. P450 enzymes are classified into subfamilies based on their sequence similarities. CYP4F11 is an isoform of the cytochrome P450 4F protein and is expressed mainly in human liver, followed by kidney, heart, and skeletal muscle. CYP4F11 contains 524 amino acid residues that share 80.0, 82.3 and 79.2% identity to CYP4F2, CYP4F3, and CYP4F8 amino acid sequences, respectively. CYP4F11 has catalytic properties towards endogenous eicosanoids as well as some clinically relevant drugs, and is able to metabolize large molecules such as erythromycin.

**ORDERING INFORMATION**

**CATALOG NUMBER**  
X2052M

**SIZE**  
200 µg

**FORM**  
Unconjugated

**HOST/CLONE**  
Mouse Clone F21 P6 F5

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

**CONCENTRATION**  
See vial for concentration

**ISOTYPE**  
IgG1

**APPLICATIONS**  
ELISA, Western Blot, Immunohistochemistry

**SPECIES REACTIVITY**  
Human

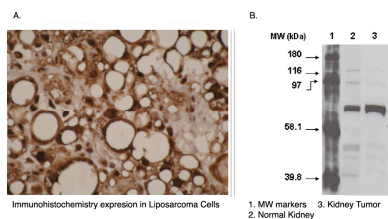
**ACCESSION NUMBER**  
Human A8K059

**IMMUNOGEN**

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a synthetic peptide derived from the C-terminus of the human CYP450 4F11 protein and mouse myeloma Ag8563 cells.

A. Immunohistochemical staining of human liposarcoma cells using CYP4F11 antibody (Cat. No. X2052M).

B. Western blot using CYP4F11 antibody one normal (2) and cancerous (3) kidney cell lysates.



**POSITIVE CONTROL/TISSUE EXPRESSION**

Liposarcoma tissue, kidney

**COMMENTS**

Antibody can be used for Western blotting (1-2  $\mu\text{g/ml}$ ) and immunohistochemistry on formalin-fixed, paraffin-embedded tissues (1-5  $\mu\text{g/ml}$ ). 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  $-20^{\circ}\text{C}$ . Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Kumarasingham, M., et al. (2005). Cytochrome p450 profile of colorectal cancer: Identification of markers of prognosis. *Clin. Cancer Res.* 11(10);3758-3765.
2. Cui, X., et al. (2000). A novel human cytochrome P450 4F isoform (CYP4F11): cDNA cloning, expression and genomic structural characterization. *Genomics.* 68(2);161-166.
3. Kalsotra, A., et al. (2004). Expression and characterization of human cytochrome P450 4F11: Putative role in the metabolism of therapeutic drugs and eicosanoids. *Toxicol. Appl. Pharmacol.* 199(3);295-304.

**PRODUCT SPECIFIC REFERENCES**