



SZABO SCANDIC

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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 26A1. Mouse Monoclonal Antibody

CYP450 26 (EC 1.14.-.-); Retinoic acid-metabolizing cytochrome; P450 retinoic acid-inactivating 1; P450RAI; hP450RAI; Retinoic acid 4-hydroxylase

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. CYP26A1, also referred to as retinoic acid-4-hydroxylase, is a major retinoic acid catabolic enzyme. CYP26A1 plays an important role in protecting tailbud tissues from inappropriate exposure to retinoic acid. CYP26A1 transcription is epigenetically regulated by nuclear retinoic acid receptors β 2. Mutations in the gene encoding for CYP26A1 are associated with caudal agenesis and spina bifida, imperforate anus, agenesis of the caudal portions of the digestive and urogenital tracts, and malformed lumbosacral skeletal elements. CYP26A1 is upregulated in adenomatous polyposis coli mouse adenomas, human FAP adenomas, human sporadic colon carcinomas, and in the intestine of adenomatous polyposis coli(mcr) mutant zebrafish embryos.

ORDERING INFORMATION

CATALOG NUMBER

X2049M

SIZE

200 μ g

FORM

Unconjugated

HOST/CLONE

Mouse Clone F27 P6 A1

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

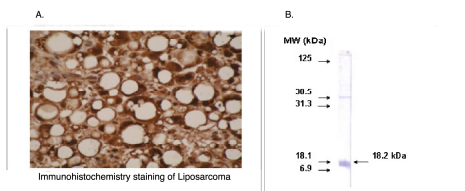
Human O43174

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 26A1 protein and mouse myeloma Ag8563 cells.

A. Immunohistochemical staining of liposarcoma cells using CYP26A1 antibody (cat. no. X2049M).

B. Western blot on recombinant protein corresponding to C-terminal region of CYP26A1 protein using CYP26A1 antibody.



POSITIVE CONTROL/TISSUE EXPRESSION

Liposarcoma cells

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°C . Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Kumarakasingham, M., et al. (2005). Cytochrome p450 profile of colorectal cancer: Identification of markers of prognosis. *Clin. Cancer Res.* 11(10);3758-3765.
2. Sakai, Y., et al. (2004). CYP26A1 and CYP26C1 cooperate in degrading retinoic acid within the equatorial retina during later eye development. *276(1);143-157*
3. Osanai, M. and Petkovich, M. (2005). Expression of the retinoic acid-metabolizing enzyme CYP26A1 limits programmed cell death. *67(5);1808-1817*

PRODUCT SPECIFIC REFERENCES