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- Trockeneiszuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

CYP3A4 purified MaxPab mouse polyclonal antibody (B01P) MaxPab®

Catalog # : H00001576-B01P

規格 : [50 ug]

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Specification

Product Description: Mouse polyclonal antibody raised against a full-length human CYP3A4 protein.

Immunogen: CYP3A4 (AAI01632.1, 1 a.a. ~ 503 a.a) full-length human protein.

Sequence:
 MALIPDLAMETWLLLAVSLVLLYLYGTHSHGLFKKLGIPGPTPLPFLGNIL
 SYHKGFCMFDMECHKKYGKVVGFYDGGQPVLAITDPDMIKTVLVKECY
 SVFTNRRPFGPVGFMKSAISIAEDEEWKRLRSLLSPTFTSGKLEKEMVPIIA
 QYGDVLRNLRREAETGKPVTLKDFV GAYSMDVITSTSF GVNIDSLNNP
 QDPFVENTKKLLRFDLDPFFLSITVFPFLIPIEVLNICVFPREVTNFLRKS
 VKRMKESRLEDTQKHRVDFLQLMDSQNSKETESHKALSDLELVAQSIIFI
 FAGYETTSSVLSFIMYELATHPDVQKQLQEEIDAVLPNKAPPTYDTVLQM
 EYLDVVNETLRLFPIAMRLERVCKKDVEINGMFIPKGVVVMIPSYALHRD
 PKYWTEPEKFLPERFSKKNKDNIDPYITPFGSGPRNCIGMRFALMNMKL
 ALIRVLQNFSPKCKETQIPLKLSLGLLQPEKPVVLKVESRDGTVSGA

Host: Mouse

Reactivity: Human

Quality Control Testing: Antibody reactive against mammalian transfected lysate.

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

MSDS: [Download](#)

Datasheet: [Download](#)

Publication Reference

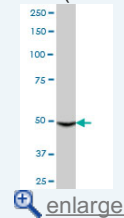
- [Dermal Xenobiotic Metabolism: A Comparison between Native Human Skin, Four in vitro Skin Test Systems and a Liver System.](#)
 Wiegand C, Hewitt NJ, Merk HF, Reisinger K. *Skin Pharmacol Physiol.* 2014 Jun 13;27(5):263-275.
- [Phase I and II metabolism and MRP2-mediated export of bosentan in a MDCKII-OATP1B1-CYP3A4-UGT1A1-MRP2 quadruple-transfected cell line.](#)
 Fahrmayr C, König J, Auge D, Mieth M, Munch K, Segrestaa J, Pfeifer T, Treiber A, Fromm MF. *Br J Pharmacol.* 2013 Feb 6. doi: 10.1111/bph.12126.
- [Oncostatin M Renders Epithelial Cell Adhesion Molecule-Positive Liver Cancer Stem Cells Sensitive to 5-Fluorouracil by Inducing Hepatocytic Differentiation.](#)
 Yamashita T, Honda M, Nio K, Nakamoto Y, Yamashita T, Takamura H, Tani T, Zen Y, Kaneko S. *Cancer Res.* 2010 Jun 1;70(11):4687-97. Epub 2010 May 18.

Applications

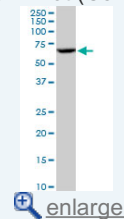
Western Blot (Tissue lysate)

Application Image

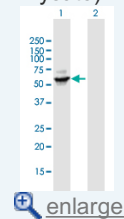
Western Blot (Tissue lysate)



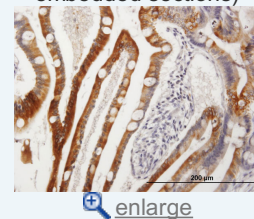
Western Blot (Cell lysate)

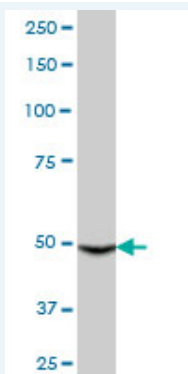


Western Blot (Transfected lysate)



Immunohistochemistry
(Formalin/PFA-fixed paraffin-embedded sections)

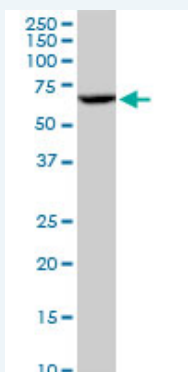




CYP3A4 MaxPab polyclonal antibody. Western Blot analysis of CYP3A4 expression in human liver.

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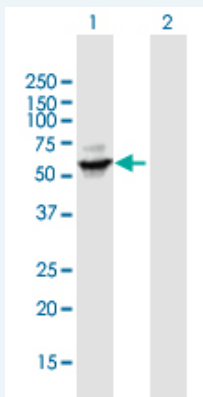
Western Blot (Cell lysate)



CYP3A4 MaxPab polyclonal antibody. Western Blot analysis of CYP3A4 expression in HepG2.

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Western Blot (Transfected lysate)



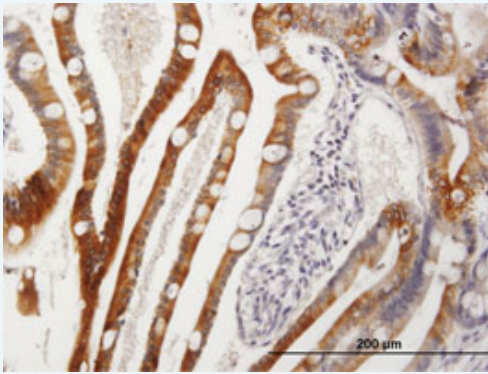
Western Blot analysis of CYP3A4 expression in transfected 293T cell line ([H00001576-T01](#)) by CYP3A4 MaxPab polyclonal antibody.

Lane 1: CYP3A4 transfected lysate(55.33 KDa).

Lane 2: Non-transfected lysate.

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



[enlarge this image](#)

Immunoperoxidase of purified MaxPab antibody to CYP3A4 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 3 ug/ml]

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Gene Information

Entrez GeneID: [1576](#)

GeneBank Accession#: [NM_017460.3](#)

Protein Accession#: [AAI01632.1](#)

Gene Name: CYP3A4

Gene Alias: CP33,CP34,CYP3A,CYP3A3,HLP,MGC126680,NF-25,P450C3,P450PCN1

Gene Description: cytochrome P450, family 3, subfamily A, polypeptide 4

Omim ID: [124010](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene, CYP3A4, encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by glucocorticoids and some pharmacological agents. This enzyme is involved in the metabolism of approximately half the drugs which are used today, including acetaminophen, codeine, cyclosporin A, diazepam and erythromycin. The enzyme also metabolizes some steroids and carcinogens. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Previously another CYP3A gene, CYP3A3, was thought to exist; however, it is now thought that this sequence represents a transcript variant of CYP3A4. [provided by RefSeq]

Other Designations: P450-III, steroid inducible,cytochrome P450, subfamily IIIA (nifedipine oxidase), polypeptide 3,cytochrome P450, subfamily IIIA (nifedipine oxidase), polypeptide 4,cytochrome P450, subfamily IIIA, polypeptide 4,glucocorticoid-inducible P450,nifedipine o

Gene Pathway

[Drug metabolism - cytochrome P450](#) [Drug metabolism - other enzymes](#)
[gamma-Hexachlorocyclohexane degradation](#) [Linoleic acid metabolism](#) [Metabolic pathways](#)
[Metabolism of xenobiotics by cytochrome P450](#) [Retinol metabolism](#)

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