

## Product datasheet

# Anti-Cytochrome P450 3A4 antibody ab98319

1 Image

### Overview

<b>Product name</b>	Anti-Cytochrome P450 3A4 antibody
<b>Description</b>	Rabbit polyclonal to Cytochrome P450 3A4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Sheep, Rabbit, Goat, Horse, Chicken, Guinea pig, Cow, Cat, Dog, African green monkey
<b>Immunogen</b>	Synthetic peptide corresponding to a region within internal amino acids 395-444 (MIPSYALHRDPKYWTEPEKFLPERFSKKNKDNIDPYITPFGSGPRNCIG) of Human Cytochrome P450 3A4 (NP_059488). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	THP-1 cell lysate.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None Constituents: 2% Sucrose, PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab98319** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 57 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

## Target

**Function** Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It performs a variety of oxidation reactions (e.g. caffeine 8-oxidation, omeprazole sulphoxidation, midazolam 1'-hydroxylation and midazolam 4-hydroxylation) of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. The enzyme also hydroxylates etoposide.

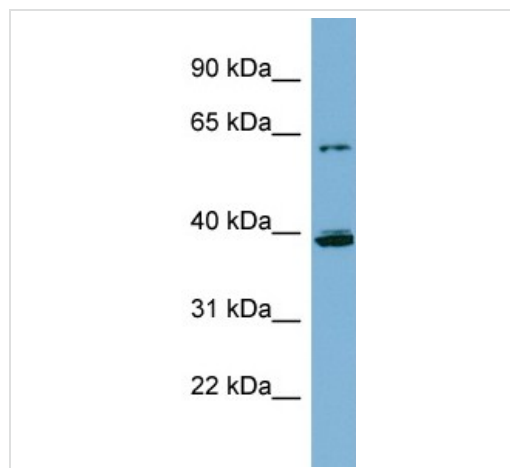
**Tissue specificity** Expressed in prostate and liver. According to some authors, it is not expressed in brain (PubMed:19094056). According to others, weak levels of expression are measured in some brain locations (PubMed:19359404 and PubMed:18545703). Also expressed in epithelium of the small intestine and large intestine, bile duct, nasal mucosa, kidney, adrenal cortex, epithelium of the gastric mucosa with intestinal metaplasia, gallbladder, intercalated ducts of the pancreas, chief cells of the parathyroid and the corpus luteum of the ovary (at protein level).

**Sequence similarities** Belongs to the cytochrome P450 family.

**Post-translational modifications** Polyubiquitinated in the presence of AMFR and UBE2G1 and also STUB1/CHIP and UBE2D1 (in vitro).

**Cellular localization** Endoplasmic reticulum membrane. Microsome membrane.

## Images



Anti-Cytochrome P450 3A4 antibody (ab98319) at 1 µg/ml (5% skim milk/PBS buffer) + THP-1 cell lysate at 10 µg

**Predicted band size:** 57 kDa

Gel concentration: 12%

Western blot - Anti-Cytochrome P450 3A4 antibody (ab98319)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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