


Product datasheet

Anti-Cytochrome P450 3A4 antibody ab98319

1 Image

Overview

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

Properties

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

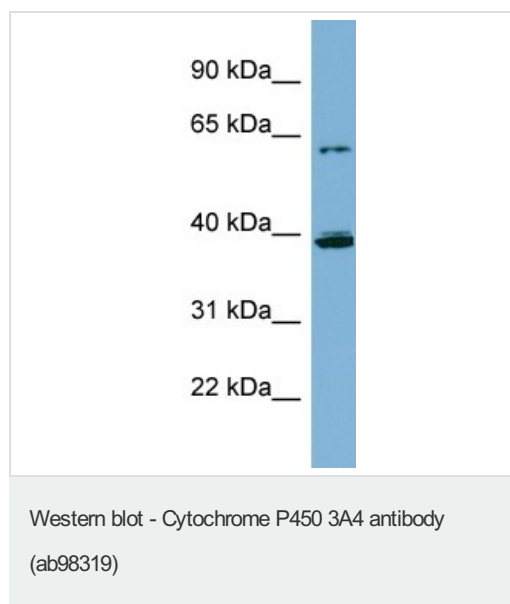
Post-translational modifications

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

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