Human CYP3A4 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 946002

Catalog Number: FAB9079G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CYP3A4 in Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 946002
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human CYP3A4 synthetic peptide Lys67-Pro80 Accession # P08684
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CYP3A4 (cytochrome P450, subfamily 3A, polypeptide 4) belongs to the cytochrome P450 superfamily of monooxygenases that catalyze reactions involved in both drug metabolism and the synthesis of cholesterol, steroids, and other lipid components. CYP3A4 is predominantly found in liver microsomes, but has also been detected in prostate, small and large intestine, bile duct, nasal mucosa, kidney and adrenal cortex. It is an extremely important enzyme for drug metabolism; CYP3A4 catalyzes phase I oxidation reactions in an estimated 60% of all clinically used drugs, promoting in most cases their clearance by excretion. CYP3A4 levels are induced by glucocorticoids and various xenobiotics, including drugs, pesticides and carcinogens. Human CYP3A4 is a 50 kDa single-pass membrane protein, 503 amino acids in length.

PRODUCT SPECIFIC NOTICES

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475