

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CYP7A1 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 946902
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human CYP7A1 synthetic peptide Accession # P22680
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Immunocytochemistry 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

CYP7A1 (cytochrome P450 7A1; also Cholesterol 7- α -monooxygenase) is a 504 aa oxidoreductase enzyme (SwissProt #: P22680). Human CYP7A1 shares 81% and 82% aa identity with mouse and rat CYP7A1, respectively. It is expressed in the liver where it catalyzes cholesterol metabolism, which is the rate-limiting step in bile acid synthesis. Disruption of CYP7A1 is associated with high plasma cholesterol levels leading to increased risk of coronary artery disease.

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