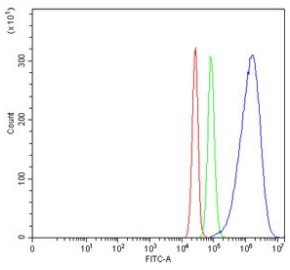
CYP7A1 Antibody (R32020)

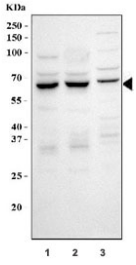
Catalog No.	Formulation	Size
R32020	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	Discontinued
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P22680
Localization	Cytoplasmic, membranous
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This CYP7A1 antibody is available for research use only.



Flow cytometry testing of human SiHa cells with CYP7A1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CYP7A1 antibody.



Western blot testing of 1) human HeLa, 2) human K562 and 3) rat RH35 cell lysate with CYP7A1 antibody. Expected molecular weight ~58 kDa.

Description

CYP7A1 (Cytochrome P450 Subfamily VIIA Polypeptide 1), also called CYP7, is an enzyme that in humans is encoded by the CYP7A1 gene. Using both mouse-human somatic cell hybrids and in situ chromosomal hybridization, Cohen et al. (1992) mapped the CYP7 gene to 8q11-q12. By transfection of reporter constructs, mutation analysis, and DNase footprinting, Molowa et al. (1992) identified areas of the CYP7A1 promoter region that showed hepatocyte-specific activation. They found HNF3 to be an activator of CYP7A1 activity. Agellon et al. (2002) found that wildtype mice and mice transgenic for human CYP7A1 respond differently to cholesterol feeding. Cholesterol feeding stimulated Cyp7a1 mRNA abundance and enzymatic activity in wildtype mice, but repressed human CYP7A1 mRNA and activity in transgenic mice.

Application Notes

Optimal dilution of the CYP7A1 antibody should be determined by the researcher.

Immunogen

Amino acids 301-504 of human CYP7A1 were used as the immunogen for the CYP7A1 antibody.

Storage

After reconstitution, the CYP7A1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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