

CYP39A1 Antibody (aa361-410)
Rabbit Polyclonal Antibody
Catalog # ALS14616**Specification**

CYP39A1 Antibody (aa361-410) - Product Information

Application	IF, WB
Primary Accession	O9NYL5
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54kDa KDa

CYP39A1 Antibody (aa361-410) - Additional Information

Gene ID 51302

Other Names

24-hydroxycholesterol 7-alpha-hydroxylase, 1.14.13.99, Cytochrome P450 39A1, hCYP39A1, Oxysterol 7-alpha-hydroxylase, CYP39A1

Target/Specificity

Cytochrome P450 39A1 Antibody detects endogenous levels of total Cytochrome P450 39A1 protein.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

CYP39A1 Antibody (aa361-410) is for research use only and not for use in diagnostic or therapeutic procedures.

CYP39A1 Antibody (aa361-410) - Protein Information

Name CYP39A1 {ECO:0000303|PubMed:25201972, ECO:0000312|HGNC:HGNC:17449}

Function

A cytochrome P450 monooxygenase involved in neural cholesterol clearance through bile acid synthesis (PubMed: [10748047](http://www.uniprot.org/citations/10748047)), PubMed: [25201972](http://www.uniprot.org/citations/25201972)). Catalyzes 7-alpha hydroxylation of (24S)- hydroxycholesterol, a neural oxysterol that is metabolized to bile acids in the liver (PubMed: [10748047](http://www.uniprot.org/citations/10748047)), PubMed: [25201972](http://www.uniprot.org/citations/25201972)). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed: [10748047](http://www.uniprot.org/citations/10748047)), PubMed: [25201972](http://www.uniprot.org/citations/25201972)).

href="http://www.uniprot.org/citations/25201972" target="_blank">25201972).

Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q64654}; Multi-pass membrane protein. Microsome membrane {ECO:0000250|UniProtKB:Q64654}; Multi-pass membrane protein

Tissue Location

Liver specific..

Volume

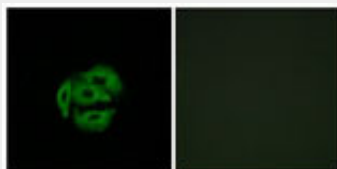
50 μ l

CYP39A1 Antibody (aa361-410) - Protocols

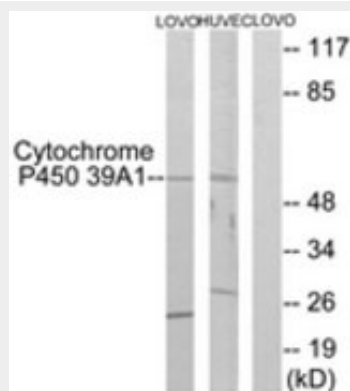
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CYP39A1 Antibody (aa361-410) - Images



Immunofluorescence of A549 cells, using Cytochrome P450 39A1 Antibody.



Western blot of extracts from LOVO/HUVEC cells, using Cytochrome P450 39A1 Antibody.

CYP39A1 Antibody (aa361-410) - Background

Involved in the bile acid metabolism. Has a preference for 24-hydroxycholesterol, and converts it into a 7- α -hydroxylated product.

CYP39A1 Antibody (aa361-410) - References

Li-Hawkins J., et al. J. Biol. Chem. 275:16543-16549(2000).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mungall A.J., et al. Nature 425:805-811(2003).