

**CYP39A1 Polyclonal Antibody**  
Catalog # AP69410**Specification****CYP39A1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9NYL5</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

**CYP39A1 Polyclonal Antibody - Additional Information****Gene ID** 51302**Other Names**

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

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**CYP39A1 Polyclonal Antibody - 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)).

**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

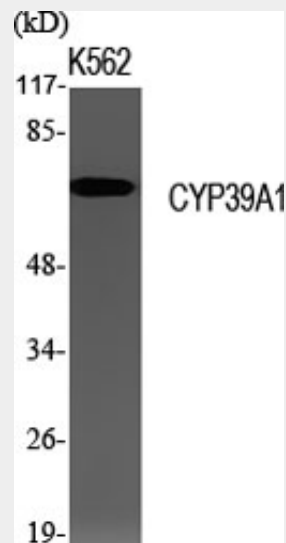
Liver specific..

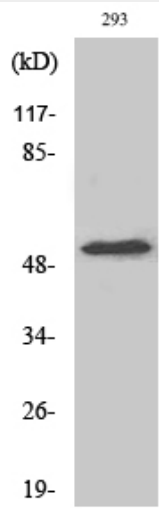
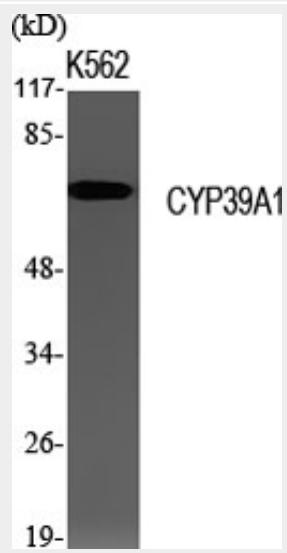
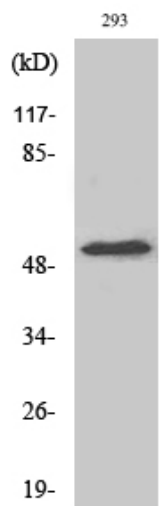
#### CYP39A1 Polyclonal Antibody - Protocols

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 Polyclonal Antibody - Images





**CYP39A1 Polyclonal Antibody - Background**

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