

For Research Use Only

# CYP4A11 Polyclonal antibody, PBS Only

Catalog Number: 11688-1-PBS



## Basic Information

Catalog Number:

11688-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2300

GenBank Accession Number:

BC022851

GeneID (NCBI):

1579

UNIPROT ID:

Q02928

Full Name:

cytochrome P450, family 4, subfamily A, polypeptide 11

Calculated MW:

519 aa, 59 kDa

Observed MW:

59 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

## Background Information

CYP4A is a member of the CYP4 enzyme family and is involved in the metabolism of medium- and long-chain fatty acids, such as arachidonic acid, palmitate, laurate and compounds with highly regionally selective hydroxylated terminal  $\omega$ -carbon (PMID: 2554928). CYP4A11 is involved in the development of nonalcoholic fatty liver disease via ROS-induced lipid peroxidation and inflammation (PMID: 32124935). CYP4A11 primarily metabolizes endobiotics and catalyzes the  $\omega$ -hydroxylation of fatty acids in human liver and kidney tissues (PMID: 34594219). The human CYP4A11 is homologous to mouse CYP4A14 (PMID: 38356602).

## Storage

Storage:

Store at  $-80^{\circ}\text{C}$ .

**The product is shipped with ice packs. Upon receipt, store it immediately at  $-80^{\circ}\text{C}$**

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

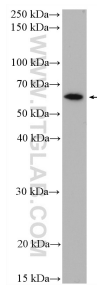
T: 4006900926

E: Proteintech-CN@ptglab.com

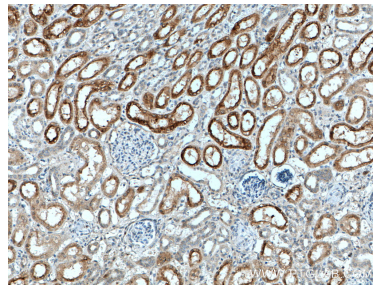
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

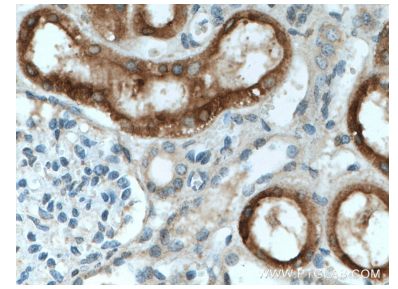
## Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 11688-1-AP (CYP4A11 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 11688-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 11688-1-AP (CYP4A11 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11688-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 11688-1-AP (CYP4A11 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11688-1-PBS in a different storage buffer formulation.