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ACY3 Rabbit pAb

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Catalog # AP54206

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96HD9
Predicted	Rat, Human, Mouse, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35241
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ACY 3
Epitope Specificity	221-319/319
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Apical cell membrane; Peripheral membrane protein. Cytoplasm. Note=Predominantly localized in the apical membrane of cells in the S1 segment. In the proximal straight tubules (S2 and S3 segments) is expressed diffusely throughout the cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ACY3 belongs to the aspA/astE family. Aspartoacylase subfamily. Catalytic activity: N-acyl-L-aspartate + H(2)O = a carboxylate + L-aspartate. Plays an important role in deacetylating mercapturic acids in kidney proximal tubules.

Additional Information

Gene ID	91703
Other Names	N-acyl-aromatic-L-amino acid amidohydrolase (carboxylate-forming), 3.5.1.114, Acylase III, Aminoacylase-3, ACY-3, Aspartoacylase-2, Hepatitis C virus core-binding protein 1, HCBP1, HCV core-binding protein 1, ACY3, ASPA2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ACY3

Synonyms	ASPA2
Function	Deacetylates N-acetyl aromatic amino acids and mercapturic acids (N-acetyl-L-cysteine-S-conjugates), including halogenated mercapturic acids derived from the metabolism of environmental contaminants such as trichloroethylene, making it a key enzyme in the processing of both endogenous and xenobiotic compounds. In neurons and blood vessels, deacetylates the mercapturates of 4-hydroxy-2-nonenal (4HNE) and acrolein (ACR), two highly reactive lipid peroxidation products; the resulting deacetylated products can then be transformed into toxic compounds by beta-lyase.
Cellular Location	Apical cell membrane {ECO:0000250|UniProtKB:Q91XE4}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q91XE4}. Cytoplasm {ECO:0000250|UniProtKB:Q91XE4}. Note=Predominantly localized in the apical membrane of cells in the S1 segment. In the proximal straight tubules (S2 and S3 segments) is expressed diffusely throughout the cytoplasm. {ECO:0000250|UniProtKB:Q91XE4}

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.