

AADACL1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58292

Specification

AADACL1 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, E

Primary Accession
Reactivity
Rat
Host
Clonality
Calculated MW

Open Primary Accession
Rat
Rabbit
Polyclonal
46 KDa

Physical State
Liquid
Immunogen
KLH conjugated synthetic peptide derived

laG

from human AADACL1

Epitope Specificity 151-250/408

Isotype
Purity
affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

SUBCELLULAR LOCATION Proclin300 and 50% Glycerol.

Membrane; Single-pass type II

SIMILARITY membraneprotein (Probable). Microsome
Belongs to the 'GDXG' lipolytic enzyme

family.

Post-translational modifications N-glycosylated.

Important Note

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

The assembly of very-low-density lipoproteins (VLDLs) in the secretory apparatus of the hepatocyte relies on the mobilization of triacylglycerol (TAG) from the cytosolic pool by lipolysis and re-esterification. However, some of the re-esterified TAG products are returned to the cytosolic pool in the liver, which protects vulnerable body tissues from excess lipotoxic non-esterified fatty acids in the plasma. Some of the lipases involved in this process include arylacetamide deacetylase (AADAC) and its related proteins AADACL1 and AADACL2. AADAC, a single pass type II membrane protein of the endoplasmic reticulum, is expressed in hepatocytes, intestinal mucosal cells, pancreas and adrenal gland. It plays an important role in the metabolic activation of arylamine substrates to ultimate carcinogens. AADACL1 hydrolyzes the metabolic intermediate 2-acetyl monoalkylglycerol, and its inactivation results in disruption of ether lipid metabolism in cancer cells and impaired cell migration and tumor growth.

AADACL1 Polyclonal Antibody - Additional Information

Gene ID 57552

Other Names

Neutral cholesterol ester hydrolase 1, NCEH, 3.1.1.-, Arylacetamide deacetylase-like 1, NCEH1,



AADACL1, KIAA1363

Target/Specificity

Expressed in monocyte-derived macrophages. Up-regulated in invasive melanoma and breast carcinoma cell lines.

Dilution

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<span class ="dilution_IHC-P">IHC-P~~N/A</span><br \> <span class
="dilution_IHC-F">IHC-F~~N/A</span><br \> <span class
="dilution_IF">IF~~1:50~200</span><br \> <span class ="dilution_E">E~~N/A</span>
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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.

AADACL1 Polyclonal Antibody - Protein Information

Name NCEH1

Synonyms AADACL1, KIAA1363

Function

Hydrolyzes 2-acetyl monoalkylglycerol ether (1-O-alkyl-2- acetyl-sn-glycerol), the penultimate precursor of the pathway for de novo synthesis of platelet-activating factor (PubMed:17052608). May be responsible for the hydrolysis of cholesterol esters (such as cholesteryl (9Z-octadecenoate)) in macrophages (By similarity). Also involved in organ detoxification by hydrolyzing exogenous organophosphorus compounds (By similarity). May contribute to cancer pathogenesis by promoting tumor cell migration (PubMed:17052608).

Cellular Location

Cell membrane; Single-pass type II membrane protein. Microsome {ECO:0000250|UniProtKB:Q8BLF1}

Tissue Location

Expressed in monocyte-derived macrophages. Up- regulated in invasive melanoma and breast carcinoma cell lines

AADACL1 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 Cytomety
- Cell Culture

AADACL1 Polyclonal Antibody - Images