10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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	Q6PIU2
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**46 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human AADACL1**
Epitope Specificity	**151-250/408**
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	**Membrane; Single-pass type II membraneprotein (Probable). Microsome**
SIMILARITY	**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
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

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