AADAC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AADAC, Polyclonal Antibody
Full Product Name	AADAC Antibody
Product Gene Name	anti-AADAC antibody
Product Synonym Names	DAC; CES5A1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total AADAC protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	45,734 Da
OMIM	600338
3D Structure	ModBase 3D Structure for P22760
Immunogen	Fusion protein corresponding to residues near the C terminal of human Arylacetamide deacetylase
Product Categories/Family for anti-AADAC antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AADAC antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-AADAC antibody	WB: 1:500-1:2000 IHC: 1:50-1:100
Related Product Information for anti-AADAC antibody	Microsomal arylacetamide deacetylase competes against the activity of cytosolic arylamine N-acetyltransferase, which catalyzes one of the initial biotransformation pathways for arylamine and heterocyclic amine carcinogens. Arylacetamide deacetylation is an important enzyme activity in the metabolic activation of arylamine substrates to ultimate carcinogens. Displays major serine hydrolase activity in liver microsomes. Hydrolyzes also flutamide, which is an antiandrogen drug used for the treatment of prostate cancer that occasionally causes severe hepatotoxicity. Displays cellular triglyceride lipase activity in liver. Increases intracellular fatty acids derived from hydrolysis of newly formed triglyceride stores
Other Notes	Small volumes of anti-AADAC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AADAC purchase	MBS8589350 is an antibody targeting AADAC. Also known as AADAC Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AADAC. It may not necessarily be applicable to this product.

NCBI GI #	68299767
NCBI GeneID	13
NCBI Accession #	NP_001077.2
UniProt Primary Accession #	P22760
UniProt Secondary Accession #	Q8N1A9; A8K3L3; D3DNJ6
UniProt Related Accession #	P22760
GenBank Nucleotide #	NM_001086.2
NCBI Official Full Name	arylacetamide deacetylase
NCBI Official Synonym Full Names	arylacetamide deacetylase
NCBI Official Symbol	AADAC
NCBI Official Synonym Symbols	DAC; CES5A1
UniProt Protein Name	Arylacetamide deacetylase
Protein Family	Arylacetamide deacetylase
UniProt Gene Name	AADAC
UniProt Synonym Gene Names	DAC
UniProt Entry Name	AAAD_HUMAN
NCBI Protein Information	arylacetamide deacetylase; arylacetamide deacetylase (esterase)
NCBI Summary for AADAC	Microsomal arylacetamide deacetylase competes against the activity of cytosolic arylamine N-acetyltransferase, which catalyzes one of the initial biotransformation pathways for arylamine and heterocyclic amine carcinogens [provided by RefSeq, Jul 2008]
UniProt Comments for AADAC	AADAC: Arylacetamide deacetylation is an important enzyme activity in the metabolic activation of arylamine substrates to ultimate carcinogens. Displays major serine hydrolase activity in liver microsomes. Hydrolyzes also flutamide, which is an antiandrogen drug used for the treatment of prostate cancer that occasionaly causes severe hepatotoxicity. Displays cellular triglyceride lipase activity in liver. Increases intracellular fatty acids derived from hydrolysis of newly formed triglyceride stores. Belongs to the 'GDXG' lipolytic enzyme family. Protein type: Endoplasmic reticulum; Membrane protein, integral; Deacetylase; Motility/polarity/chemotaxis; EC 3.1.1.3; Lipase Chromosomal Location of Human Ortholog: 3q25.1 Cellular Component: endoplasmic reticulum membrane; integral to membrane Molecular Function: deacetylase activity; triacylglycerol lipase activity; serine hydrolase activity; lipase activity; catalytic activity Biological Process: metabolic process
Research Articles on AADAC	**1.** Translational N-glycosylation of AADAC plays a crucial role in regulating AADAC enzyme activity.
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