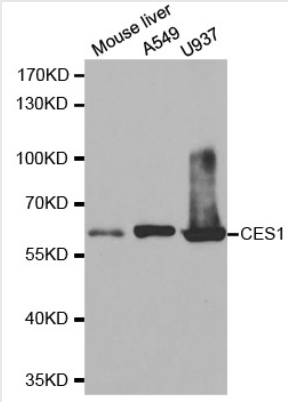
CES1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CES1, Polyclonal Antibody
Full Product Name	CES1 Antibody
Product Gene Name	anti-CES1 antibody
Product Synonym Names	CEH; REH; TGH; ACAT; CE-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total CES1 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	62,393 Da
OMIM	114835
3D Structure	ModBase 3D Structure for P23141
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human CES1.
Target Name	CES1
Product Categories/Family for anti-CES1 antibody	Total protein Ab
Applications Tested/Suitable for anti-CES1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CES1 antibody	Western blotting: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:100
Related Product Information for anti-CES1 antibody	This gene encodes a member of the carboxylesterase large family. The family members are responsible for the hydrolysis or transesterification of various xenobiotics, such as cocaine and heroin, and endogenous substrates with ester, thioester, or amide bonds. They may participate in fatty acyl and cholesterol ester metabolism, and may play a role in the blood-brain barrier system. This enzyme is the major liver enzyme and functions in liver drug clearance. Mutations of this gene cause carboxylesterase 1 deficiency. Three transcript variants encoding three different isoforms have been found for this gene.
Other Notes	Small volumes of anti-CES1 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 CES1 purchase	MBS9411107 is an antibody targeting CES1. Also known as CES1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CES1 antibody
Western blot analysis of extracts of various cell lines, using CES1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CES1. It may not necessarily be applicable to this product.

NCBI GI #	68508965
NCBI GeneID	1066
NCBI Accession #	NP_001020365.1
UniProt Primary Accession #	P23141
UniProt Secondary Accession #	P82127; Q00015; Q13657; Q14062; Q16737; Q16788; Q549X7; A6NIM1; A8K3K8; A8K844; E9PAU8
UniProt Related Accession #	P23141
GenBank Nucleotide #	NM_001025194.1
NCBI Official Full Name	liver carboxylesterase 1 isoform b
NCBI Official Synonym Full Names	carboxylesterase 1
NCBI Official Symbol	CES1
NCBI Official Synonym Symbols	CEH; REH; TGH; ACAT; CE-1; CES2; HMSE; SES1; HMSE1; PCE-1; hCE-1
UniProt Protein Name	Liver carboxylesterase 1
UniProt Synonym Protein Names	Acyl-coenzyme A:cholesterol acyltransferase; ACAT; Brain carboxylesterase hBr1; Carboxylesterase 1 (EC:3.1.1.1); CE-1; hCE-1; Cocaine carboxylesterase; Egasyn; HMSE; Methylumbelliferyl-acetate deacetylase 1 (EC:3.1.1.56); Monocyte/macrophage serine esterase; Retinyl ester hydrolase; REH; Serine esterase 1; Triacylglycerol hydrolase; TGH
Protein Family	Liver carboxylesterase
UniProt Gene Name	CES1
UniProt Synonym Gene Names	CES2; SES1; ACAT; CE-1; hCE-1; REH; TGH
UniProt Entry Name	EST1_HUMAN
NCBI Protein Information	liver carboxylesterase 1

UniProt Comments for CES1	CES1: Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. Hydrolyzes aromatic and aliphatic esters, but has no catalytic activity toward amides or a fatty acyl-CoA ester. Hydrolyzes the methyl ester group of cocaine to form benzoylecgonine. Catalyzes the transesterification of cocaine to form cocaethylene. Displays fatty acid ethyl ester synthase activity, catalyzing the ethyl esterification of oleic acid to ethyloleate. Belongs to the type-B carboxylesterase/lipase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.1.56; EC 3.1.1.1; Hydrolase; Xenobiotic Metabolism - drug metabolism - other enzymes Chromosomal Location of Human Ortholog: 16q22.2 Cellular Component: extracellular space; endoplasmic reticulum lumen Molecular Function: methylumbelliferyl-acetate deacetylase activity Biological Process: epithelial cell differentiation; metabolic process; response to toxin
Research Articles on CES1	**1.** CES1 c.428G>A single nucleotide variation increases clopidogrel active metabolite concentrations and antiplatelet effects by reducing clopidogrel hydrolysis to inactive metabolites
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