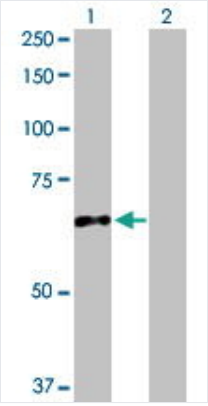
CES2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CES2, Polyclonal Antibody
Full Product Name	CES2 (Cocaine Esterase, Carboxylesterase 2, CE-2, hCE-2, Methylumbelliferyl-acetate Deacetylase 2, ICE, CES2A1) (Biotin)
Product Gene Name	anti-CES2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CES2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	61,807 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (66968347..66978999). Location: 16q22.1
OMIM	605278
3D Structure	ModBase 3D Structure for O00748
Immunogen	Full length human CES2, aa1-623 (NP_003860.2).
Immunogen Sequence	MTAQSRSPTTPTFPGPSQRTPLTPCPVQTPRLGKALIHCWTDPGQPLGEQQRVRRQRTETSEPTMRLHRLRARLSAVACGLLLLLVRGQGQDSASPIRT
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-CES2 antibody	Antibodies; Enzymes; Phosphodiesterase
Applications Tested/Suitable for anti-CES2 antibody	Western Blot (WB)
Application Notes for anti-CES2 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-CES2 antibody	CES2 is a member of the carboxylesterase large family. The family members are responsible for the hydrolysis or transesterification of various xenobio
Other Notes	Small volumes of anti-CES2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess
Searchable Terms for CES2 purchase	MBS6373743 is an antibody targeting CES2. Also known as CES2 (Cocaine Esterase, Carboxylesterase 2, CE-2, hCE-2, Methylumbelliferyl-acetate D



Western Blot (WB) of anti-CES2 antibody
Western Blot analysis of CES2 expression in transfected 293T cell line by CES2 polyclonal antibody. Lane 1: CES2 transfected lysate (68.9kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CES2. It may not necessarily be applicable to this product.

NCBI GI #	37622885
NCBI GeneID	8824
NCBI Accession #	NP_003860.2
UniProt Primary Accession #	O00748
UniProt Secondary Accession #	Q16859; Q5MAB8; Q7Z366; Q8IUP4; Q8TCP8
UniProt Related Accession #	O00748
GenBank Nucleotide #	NM_003869.4
NCBI Official Full Name	cocaine esterase isoform 1
NCBI Official Synonym Full Names	carboxylesterase 2
NCBI Official Symbol	CES2
NCBI Official Synonym Symbols	iCE; CE-2; PCE-2; CES2A1
UniProt Protein Name	Cocaine esterase
UniProt Synonym Protein Names	Carboxylesterase 2 (EC:3.1.1.1); CE-2; hCE-2; Methylumbelliferyl-acetate deacetylase 2 (EC:3.1.1.56)
Protein Family	Liver carboxylesterase
UniProt Gene Name	CES2
UniProt Synonym Gene Names	ICE; CE-2; hCE-2
UniProt Entry Name	EST2_HUMAN

NCBI Protein Information	cocaine esterase; hCE-2; carboxylesterase 2 (intestine, liver); methylumbelliferyl-acetate deacetylase 2; intestinal carboxylesterase; liver carboxylesterase-2
NCBI Summary for CES2	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. The protein encoded by this gene is the major intestinal enzyme and functions in intestine drug clearance. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Oct 2010]
UniProt Comments for CES2	CES2: Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. Shows high catalytic efficiency for hydrolysis of cocaine, 4-methylumbelliferyl acetate, heroin and 6-monoacetylmorphine. 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 3.1.1.84; Xenobiotic Metabolism - drug metabolism - other enzymes; Endoplasmic reticulum; EC 3.1.1.1; Hydrolase Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: extracellular space; endoplasmic reticulum; endoplasmic reticulum lumen Molecular Function: methylumbelliferyl-acetate deacetylase activity Biological Process: catabolic process
Research Articles on CES2	**1.** tested the hypothesis that an individual's CES phenotype can be characterized by reporter substrates/probes that interrogate native CES1 and CES2 activities in liver and immunoblotting methods
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