



## Rabbit Anti-CES1/Liver Carboxylesterase 1 antibody

SL18301R

<b>Product Name:</b>	CES1/Liver Carboxylesterase 1
<b>Chinese Name:</b>	肝羧酸酯酶1抗体
<b>Alias:</b>	ACAT; Acyl coenzyme A cholesterol acyltransferase; Acyl-coenzyme A:cholesterol acyltransferase; Brain carboxylesterase hBr1; Carboxylesterase ES-3; Carboxylesterase; Carboxylesterase 1 (monocyte/macrophage serine esterase 1); Carboxylesterase 1; Carboxylesterase 1 deficiency, included; Carboxylesterase 2, formerly; CE 1; CEH; Ces-1; Ces1; CES2; CESDD1; Cholesterol ester hydrolase, neutral, macrophage-derived; Cholesteryl ester hydrolase; Cocaine carboxylesterase; EC 3.1.1.1; Egasyn; ES-HTEL; ES-x; Es22; EST1_HUMAN; Esterase 22; Esterase; hCE 1; HMSE; HMSE1; Liver carboxylesterase 1; Liver carboxylesterase 3; Methylumbelliferyl acetate deacetylase 1; MGC117365; MGC156521; Monocyte carboxylesterase deficiency, included; Monocyte esterase deficiency, included; Monocyte/macrophage serine esterase; PCE-1; pI 5.5 esterase; Proline-beta-naphthylamidase; REH; Retinyl ester hydrolase; Serine esterase 1; Ses-1; SES1.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	61kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CES1/Liver Carboxylesterase 1:151-250/567
<b>Lsotype:</b>	IgG

<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>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. [provided by RefSeq, Jun 2010]</p> <p><b>Function:</b> 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 ethyl oleate.</p> <p><b>Subcellular Location:</b> Endoplasmic reticulum lumen.</p> <p><b>Tissue Specificity:</b> Expressed predominantly in liver with lower levels in heart and lung.</p> <p><b>Post-translational modifications:</b> Contains sialic acid. Cleavage of the signal sequence can occur at 2 positions, either between Trp-17 and Gly-18 or between Gly-18 and His-19.</p> <p><b>Similarity:</b> Belongs to the type-B carboxylesterase/lipase family.</p> <p><b>SWISS:</b> P23141</p> <p><b>Gene ID:</b> 1066</p> <p><b>Database links:</b></p>

[Entrez Gene: 1066](#) Human

[Entrez Gene: 12623](#) Mouse

[Entrez Gene: 24346](#) Rat

[Entrez Gene: 29225](#) Rat

[Omim: 114835](#) Human

[SwissProt: P23141](#) Human

[SwissProt: Q8VCC2](#) Mouse

[SwissProt: P10959](#) Rat

[SwissProt: Q63108](#) Rat

[Unigene: 558865](#) Human

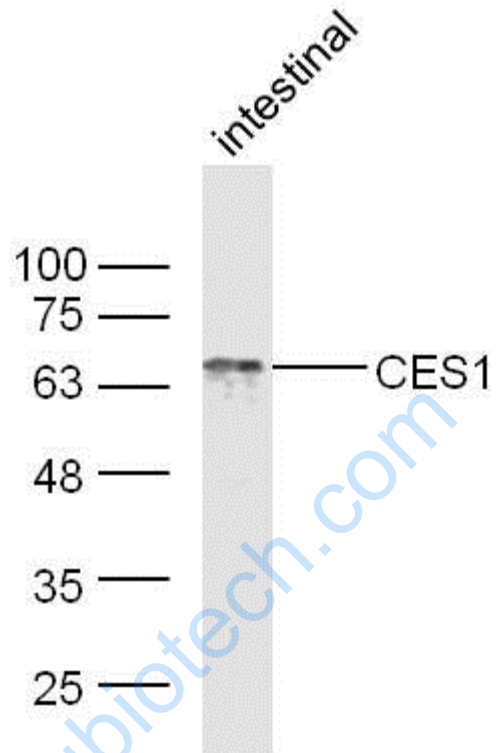
[Unigene: 22720](#) Mouse

[Unigene: 2549](#) Rat

**Important Note:**

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

Picture:



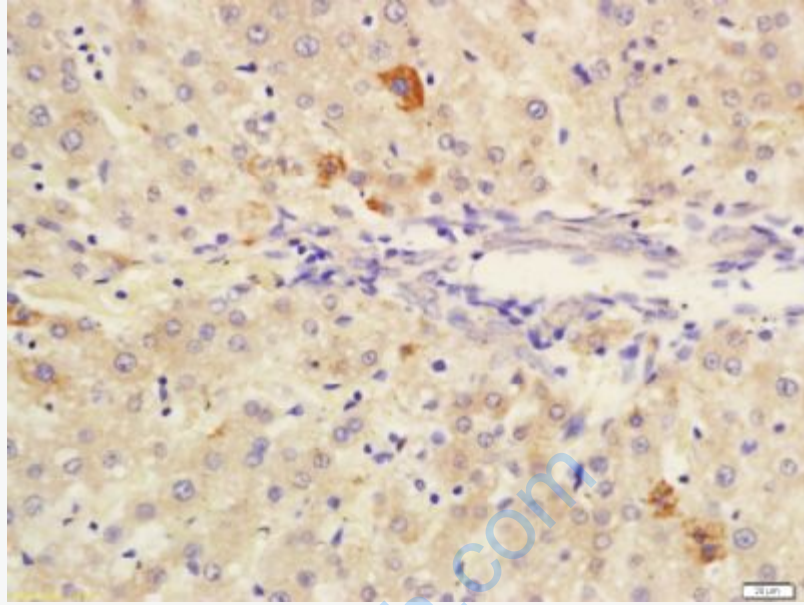
Protein: intestinal(mouse) lysate at 40ug;

Primary: rabbit Anti-CES1/Liver Carboxylesterase 1 (SL18301R) at 1:300;

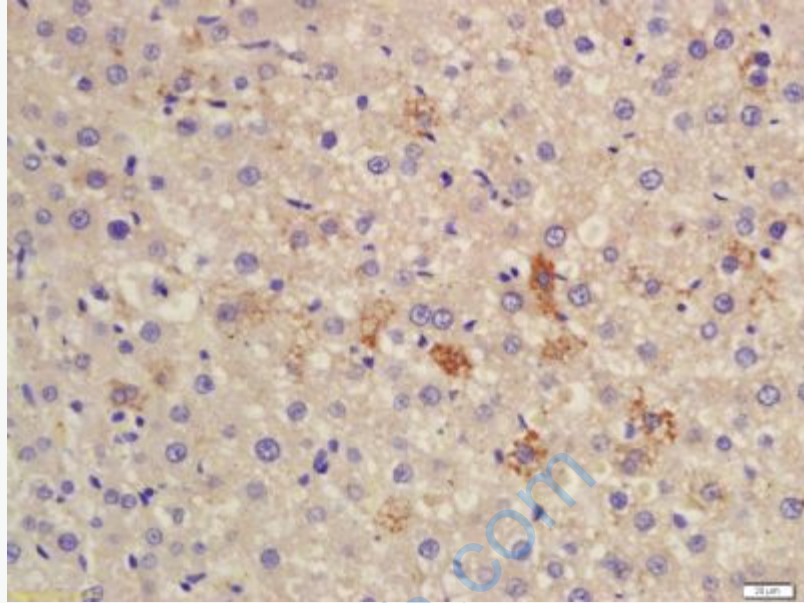
Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL18301R) at 1: 5000;

Predicted band size: 61 kD

Observed band size: 66 kD



Tissue/cell: rat liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-CES1 / Liver Carboxylesterase 1 Polyclonal Antibody, Unconjugated(SL18301R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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