BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Liver Carboxylesterase 1/CES1 Antibody Picoband®

Catalog Number: A01741-2

About CES1

Liver carboxylesterase 1 also known as carboxylesterase 1 (CES1, hCE-1 or CES1A1) is an enzyme that in humans is encoded by the CES1 gene. 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.

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Overview

Product Name	Anti-Liver Carboxylesterase 1/CES1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Liver Carboxylesterase 1/CES1 Antibody Picoband® catalog # A01741-2. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P23141

Technical Details

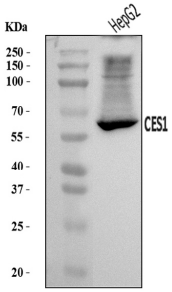
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Liver Carboxylesterase 1/CES1.

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human

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Anti-Liver Carboxylesterase 1/CES1 Antibody Picoband® (A01741-2) Images



Western blot analysis of Liver Carboxylesterase 1/CES1 using anti-Liver Carboxylesterase 1/CES1 antibody (A01741-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Liver Carboxylesterase 1/CES1 antigen affinity purified polyclonal antibody (Catalog # A01741-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Liver Carboxylesterase 1/CES1 at approximately 62 kDa. The expected band size for Liver Carboxylesterase 1/CES1 is at 62 kDa.

Anti-Liver Carboxylesterase 1/CES1 Antibody

For Research Use Only. Not for use in diagnostic procedures.