

## Product datasheet

# Anti-Liver Carboxylesterase 1/CES1 antibody [EP1375Y] ab68190

Recombinant RabMAb

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### Overview

<b>Product name</b>	Anti-Liver Carboxylesterase 1/CES1 antibody [EP1375Y]
<b>Description</b>	Rabbit monoclonal [EP1375Y] to Liver Carboxylesterase 1/CES1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB <b>Unsuitable for:</b> ICC/IF or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human Liver Carboxylesterase 1/CES1 (C terminal). The exact sequence is proprietary.
<b>Positive control</b>	Flow Cyt (intra): U-937 cells; WB: U-937 cells, mouse and rat kidney lysates.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1375Y

Isotype

IgG

## Applications

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### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab68190 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/70. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/25000 - 1/50000. Detects a band of approximately 55 kDa (predicted molecular weight: 62 kDa).

### Application notes

Is unsuitable for ICC/IF or IHC-P.

## Target

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### Function

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.

### Tissue specificity

Expressed predominantly in liver with lower levels in heart and lung.

### Sequence similarities

Belongs to the type-B carboxylesterase/lipase family.

### Post-translational modifications

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.

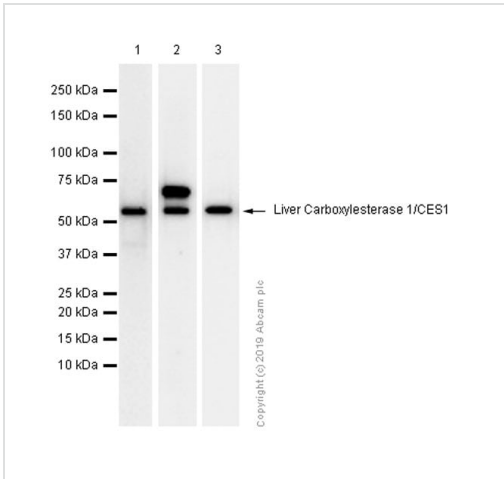
### Cellular localization

Endoplasmic reticulum lumen.

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## Images

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Western blot - Anti-Liver Carboxylesterase 1/CES1 antibody [EP1375Y] (ab68190)

**All lanes :** Anti-Liver Carboxylesterase 1/CES1 antibody [EP1375Y] (ab68190) at 1/50000 dilution (Purified)

**Lane 1 :** U-937 (Human histiocytic lymphoma monocyte) whole cell lysate

**Lane 2 :** Mouse kidney lysate

**Lane 3 :** Rat kidney lysate

Lysates/proteins at 15 µg per lane.

**Secondary**

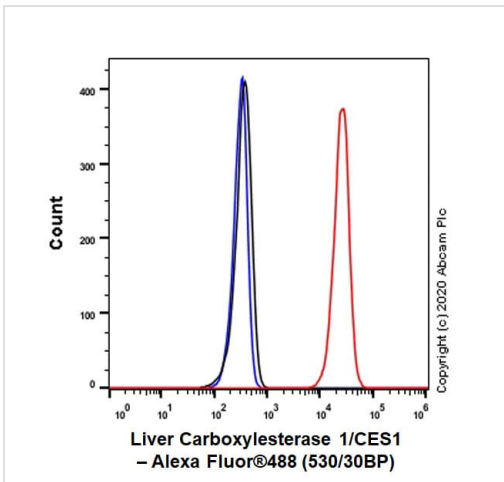
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 62 kDa

**Observed band size:** 60 kDa

The molecular weight observed is consistent with what has been described in the literature (PMID: 21049984 and PMID: 30513753).

Blocking Buffer and concentration: 5% NFDM/TBST



Flow Cytometry (Intracellular) - Anti-Liver Carboxylesterase 1/CES1 antibody [EP1375Y] (ab68190)

Intracellular Flow Cytometry analysis of U-937 (Human histiocytic lymphoma monocyte) cells labeling Liver Carboxylesterase 1/CES1 with Purified ab68190 at 1/70 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Liver Carboxylesterase 1/CES1 antibody

[EP1375Y] (ab68190)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
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