

## Product datasheet

# Anti-Liver Carboxylesterase 1/CES1 antibody [EP1375Y] - BSA and Azide free ab188033

Recombinant RabMAb

3 Images

### Overview

<b>Product name</b>	Anti-Liver Carboxylesterase 1/CES1 antibody [EP1375Y] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EP1375Y] to Liver Carboxylesterase 1/CES1 - BSA and Azide free
<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. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	Flow Cyt (intra): U-937 cells; WB: U-937 cells, mouse and rat kidney lysate.
<b>General notes</b>	<p>ab188033 is the carrier-free version of <a href="#">ab68190</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

## Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1375Y
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab188033 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

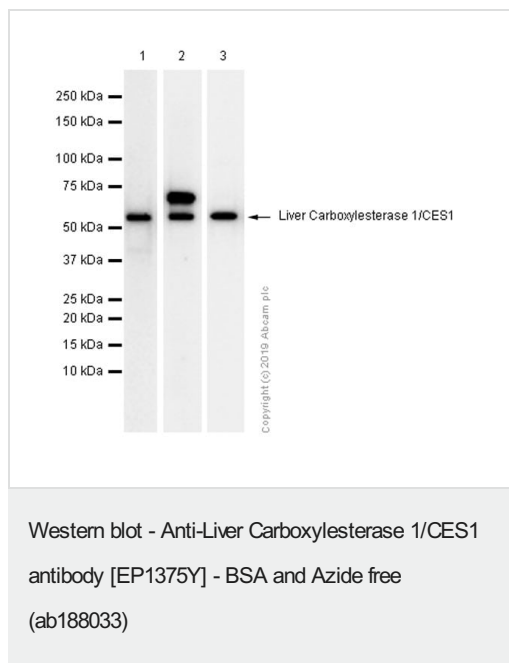
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 55 kDa (predicted molecular weight: 62 kDa).

**Application notes** Is unsuitable for ICC/IF or IHC-P.

## Target

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.

## Images



**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

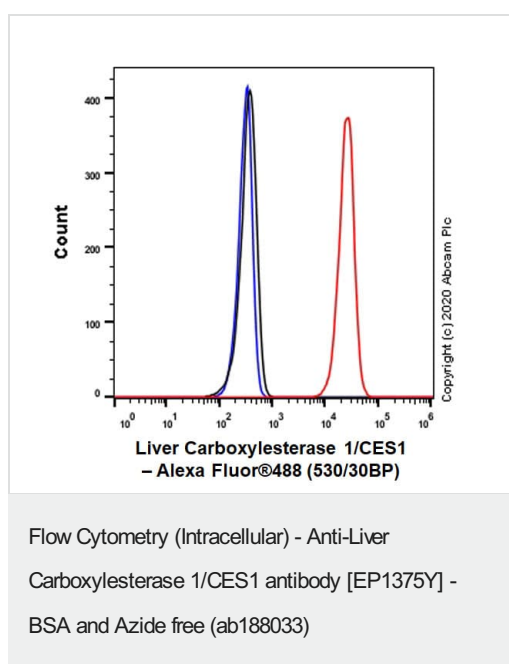
**Predicted band size:** 62 kDa

**Observed band size:** 60 kDa

This data was developed using [ab68190](#), the same antibody clone in a different buffer formulation.

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



This data was developed using [ab68190](#), the same antibody clone in a different buffer formulation. Intracellular Flow Cytometry analysis of U-937 (Human histiocytic lymphoma monocyte) cells labeling Liver Carboxylesterase 1/CES1 with Purified ab188033 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] - BSA and Azide free (ab188033)

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

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