

Liver Carboxylesterase 1 Rabbit mAb
Catalog # AP79041**Specification**

Liver Carboxylesterase 1 Rabbit mAb - Product Information

Application	WB, IP
Primary Accession	P23141
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	62521

Liver Carboxylesterase 1 Rabbit mAb - Additional Information**Gene ID** 1066**Other Names**

CES1

Dilution

WB~~1/500-1/1000

IP~~1/20

Format

Liquid

Liver Carboxylesterase 1 Rabbit mAb - Protein Information**Name** CES1 ([HGNC:1863](#))**Synonyms** CES2, SES1**Function**

Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs (PubMed: [18762277](http://www.uniprot.org/citations/18762277) , PubMed: [7980644](http://www.uniprot.org/citations/7980644) , PubMed: [9169443](http://www.uniprot.org/citations/9169443) , PubMed: [9490062](http://www.uniprot.org/citations/9490062)). Hydrolyzes aromatic and aliphatic esters, but has no catalytic activity toward amides or a fatty acyl-CoA ester (PubMed: [18762277](http://www.uniprot.org/citations/18762277) , PubMed: [7980644](http://www.uniprot.org/citations/7980644) , PubMed: [9169443](http://www.uniprot.org/citations/9169443) , PubMed: [9490062](http://www.uniprot.org/citations/9490062)). Hydrolyzes the methyl ester group of cocaine to form benzoylecgonine (PubMed: [7980644](http://www.uniprot.org/citations/7980644)). Catalyzes the transesterification of cocaine to form cocaethylene (PubMed: [7980644](http://www.uniprot.org/citations/7980644)). Displays fatty acid ethyl ester synthase activity, catalyzing the ethyl esterification of oleic acid to

ethyloleate (PubMed:7980644). Converts monoacylglycerides to free fatty acids and glycerol. Hydrolyzes of 2-arachidonoylglycerol and prostaglandins (PubMed:21049984). Hydrolyzes cellular cholesteryl esters to free cholesterol and promotes reverse cholesterol transport (RCT) by facilitating both the initial and final steps in the process (PubMed:11015575, PubMed:16024911, PubMed:16971496, PubMed:18762277). First of all, allows free cholesterol efflux from macrophages to extracellular cholesterol acceptors and secondly, releases free cholesterol from lipoprotein-delivered cholesteryl esters in the liver for bile acid synthesis or direct secretion into the bile (PubMed:16971496, PubMed:18599737, PubMed:18762277).

Cellular Location

Endoplasmic reticulum lumen. Cytoplasm Lipid droplet. Note=Moves from cytoplasm to lipid droplets upon lipid loading. Associates with lipid droplets independently of triglycerides (TG) content of the droplets and hydrolyzes cholesteryl esters more efficiently from mixed droplets

Tissue Location

Expressed predominantly in liver with lower levels in heart and lung (PubMed:10562416).
Expressed in macrophages (PubMed:11015575, PubMed:18762277, PubMed:21049984)

Liver Carboxylesterase 1 Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Liver Carboxylesterase 1 Rabbit mAb - Images



