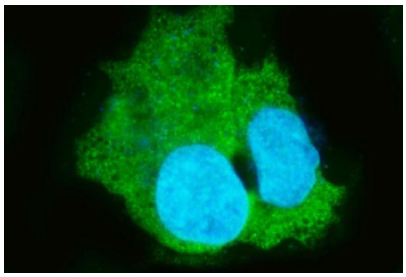
Carboxylesterase 1 Antibody / CES1 (RQ4330)

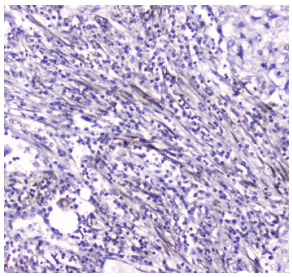
Catalog No.	Formulation	Size
RQ4330	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

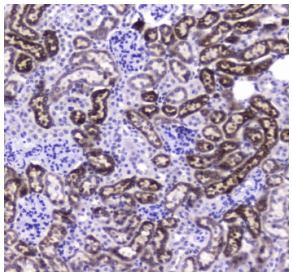
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P23141
Localization	Cytoplasm (Endoplasmic reticulum lumen)
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Carboxylesterase 1 antibody is available for research use only.



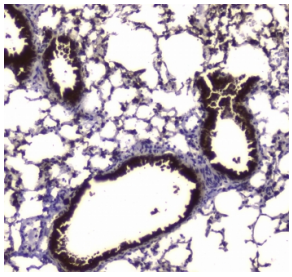
Immunofluorescent staining of FFPE human HepG2 cells with Carboxylesterase 1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



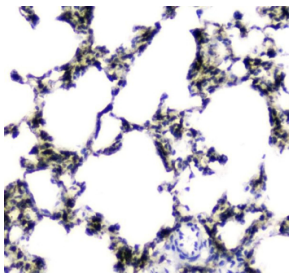
IHC testing of FFPE human lung cancer tissue with Carboxylesterase 1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



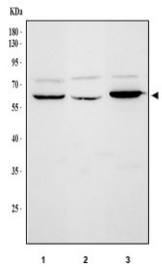
IHC testing of FFPE mouse kidney tissue with Carboxylesterase 1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



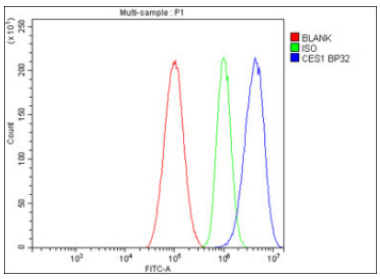
IHC testing of FFPE mouse lung tissue with Carboxylesterase 1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE rat lung tissue with Carboxylesterase 1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Western blot testing of 1) human ThP-1, 2) rat liver and 3) mouse HEPA1/6 cell lysate with Carboxylesterase 1 antibody at 0.5ug/ml. Predicted molecular weight ~63 kDa.



Flow cytometry testing of fixed and permeabilized human HepG2 cells with Carboxylesterase 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Carboxylesterase 1 antibody.

Description

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.

Application Notes

Optimal dilution of the Carboxylesterase 1 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids E99-A206 was used as the immunogen for the Carboxylesterase 1 antibody.

Storage

After reconstitution, the Carboxylesterase 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.