For Research Use Only

# CES1 Polyclonal antibody

Catalog Number:16912-1-AP Featured Product 12 Publications

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## Basic Information

Catalog Number:
16912-1-AP

Size:
150ul , Concentration: 300 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10567

GenBank Accession Number:
BC012418

GeneID (NCBI):
1066

UNIPROT ID:
P23141

Full Name:
carboxylesterase 1 (monocyte/macrophage serine esterase 1)

Calculated MW:
566 aa, 62 kDa

Observed MW:
60-63 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:800-1:8000
IHC 1:50-1:500
IF/ICC 1:50-1:500

## Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, pig

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

WB : HepG2 cells, Jurkat cells, mouse liver tissue, rat liver tissue

IHC : human liver cancer tissue, human kidney tissue

IF/ICC : HepG2 cells,

## Background Information

CES1(liver carboxylesterase 1) is also named as SES1 and belongs to the type-B carboxylesterase/lipase family. The deduced 567-amino acid protein contains a putative 18-amino acid signal peptide and a characteristic C-terminal endoplasmic reticulum retention signal (HXEL). It is the major hydrolytic enzyme responsible for the metabolism of numerous therapeutic agents as well as endogenous substrates.Westernblot analysis demonstrated that CES1 is expressed in human liver microsomes (HLM) but not in human intestinal microsomes (HIM) (PMID:19185566).

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Sue Ellen Verbrugge | 26496029 | Oncotarget | WB,IF |
| Haonan Li | 35511361 | Cell Regen | IF |
| Yin Cao | 30901224 | J Proteome Res | WB,IHC |

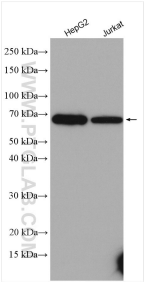
## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

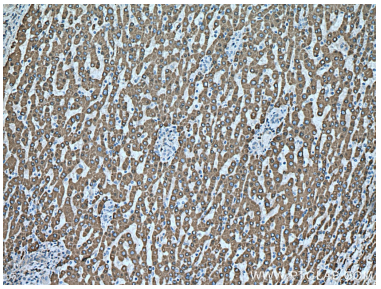
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

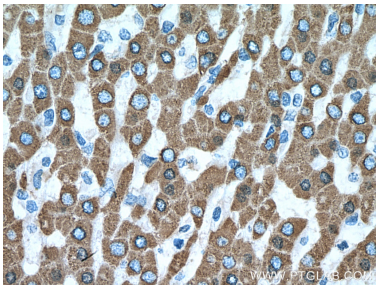
## Selected Validation Data



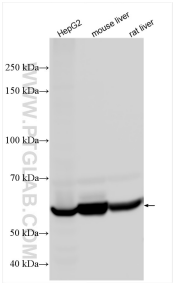

Various lysates were subjected to SDS PAGE followed by western blot with 16912-1-AP (CES1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



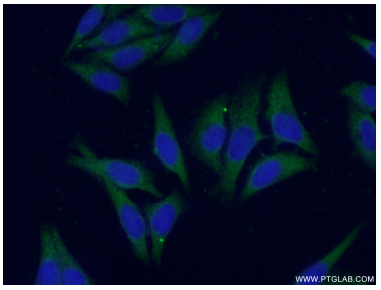
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16912-1-AP (CES1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



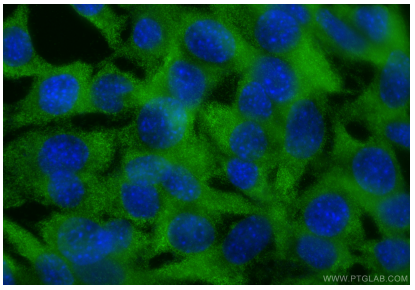
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16912-1-AP (CES1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



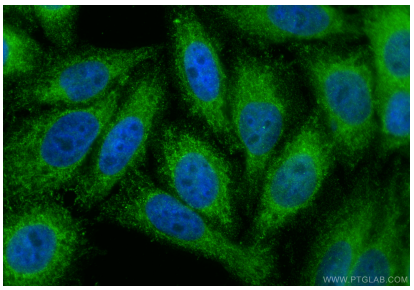

Various lysates were subjected to SDS PAGE followed by western blot with 16912-1-AP (CES1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.




Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 16912-1-AP (CES1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).




Immunofluorescent analysis of (-20°C Ethanol) fixed C2C12 cells using CES1 antibody (16912-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).




Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CES1 antibody (16912-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).