

For Research Use Only

# CES1 Polyclonal antibody

Catalog Number: 16912-1-AP

Featured Product

10 Publications



## Basic Information

**Catalog Number:**

16912-1-AP

**Size:**

300 µg/ml

**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 1:500-1:1000

IHC 1:50-1:500

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IHC, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human

**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

**IHC:** human liver cancer tissue, human kidney tissue

**IF:** 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. Western blot 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

For technical support and original validation data for this product please contact:

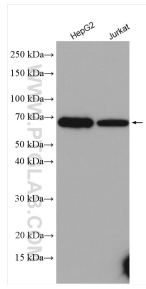
T: 4006900926

E: Proteintech-CN@ptglab.com

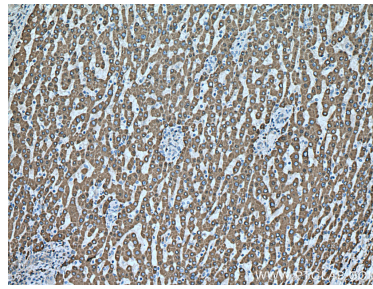
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

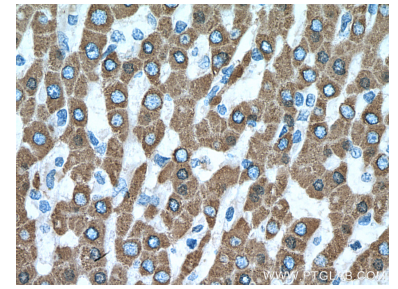
## Selected Validation Data



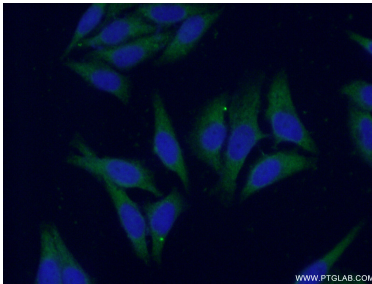
Various lysates were subjected to SDS PAGE followed by western blot with 16912-1-AP (CES1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



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).



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).