

For Research Use Only

# CES2 Polyclonal antibody

Catalog Number: 15378-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 15378-1-AP	<b>GenBank Accession Number:</b> BC032095	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 µg/ml by Nanodrop and 340 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8824	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> carboxylesterase 2 (intestine, liver)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 62 kDa	
<b>Immunogen Catalog Number:</b> AG2218	<b>Observed MW:</b> 60-70 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : BxPC-3 cells, human liver tissue, HuH-7 cells IHC : mouse small intestine tissue,
<b>Cited Applications:</b> IHC, WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

CES2(Carboxylesterase 2) is also named as ICE and belongs to the type-B carboxylesterase/lipase family. Carboxylesterases (CESs) hydrolyze ester groups of drugs and toxins. CES2 specifically catalyzes the hydrolysis of the benzoyl group of cocaine and the acetyl groups of 4-methylumbelliferyl acetate, heroin, and 6-monoacetylmorphine. CES2 differs from another liver carboxylesterase, CES1 (114835), in drug ester substrate specificity. This protein has 2 isoforms produced by alternative splicing

## Notable Publications

Author	Pubmed ID	Journal	Application
Xijuan Chen	36113774	Mol Metab	WB,IHC
Wenjing Luo	28128444	Br J Pharmacol	WB
Sato Yuichiro Y	22504157	Drug Metab Dispos	WB

## Storage

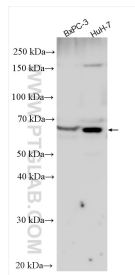
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

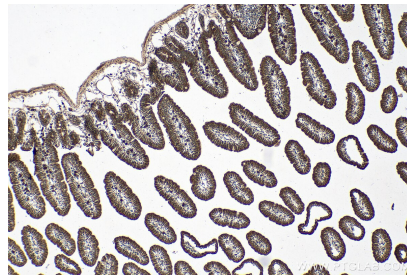
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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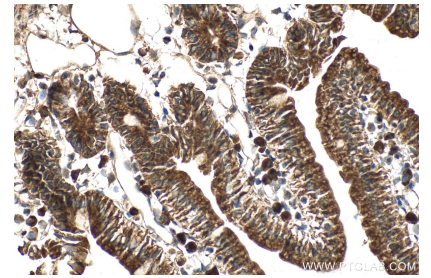
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15378-1-AP (CES2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 15378-1-AP (CES2 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 mouse small intestine tissue slide using 15378-1-AP (CES2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).