10320 Camino Santa Fe, Suite G
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CES2 / Esterase Antibody (C-Terminus)

Rabbit Polyclonal Antibody
Catalog # ALS14689

Specification

CES2 / Esterase Antibody (C-Terminus) - Product Information

Application	**IHC**
Primary Accession	O00748
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**62kDa KDa**

CES2 / Esterase Antibody (C-Terminus) - Additional Information

Gene ID 8824

Other Names
Cocaine esterase, 3.1.1.84, Carboxylesterase 2, CE-2, hCE-2, 3.1.1.1, Methylumbelliferyl-acetate deacetylase 2, 3.1.1.56, CES2, ICE

Target/Specificity
synthetic peptide corresponding to C-terminal residues of human CES2(Carboxylesterase 2 precursor)

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
CES2 / Esterase Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

CES2 / Esterase Antibody (C-Terminus) - Protein Information

Name CES2 (HGNC:1864)

Synonyms ICE

Function
Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs (PubMed:9169443). Shows high catalytic efficiency for hydrolysis of cocaine, 4-methylumbelliferyl acetate, heroin and 6-monoacetylmorphine (PubMed:9169443). Hydrolyzes aspirin, substrates with large alcohol group and small acyl group and endogenous lipids such as triacylglycerol (PubMed:28677105). Converts monoacylglycerides to free fatty acids and glycerol. Hydrolyzes of 2- arachidonoylglycerol and prostaglandins (PubMed:<a href="http://www.uniprot.org/citations/21049984"

target="_blank">21049984).

Cellular Location
Endoplasmic reticulum lumen

Tissue Location
Preferentially expressed in intestine with moderate expression in liver. Within the intestine, highest expression is found in small intestine with lower expression in colon and rectum

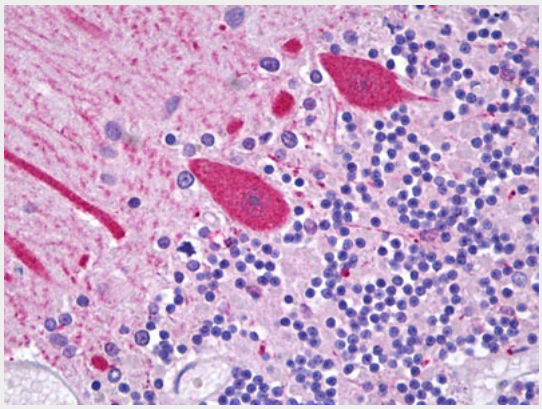
Volume
50 µl

CES2 / Esterase Antibody (C-Terminus) - Protocols

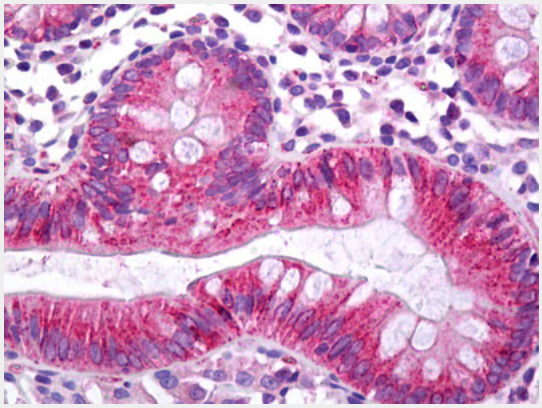
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CES2 / Esterase Antibody (C-Terminus) - Images



Anti-CES2 / Esterase antibody IHC of human brain, cerebellum, Purkinje cells.



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Anti-CES2 / Esterase antibody IHC of human colon.

CES2 / Esterase Antibody (C-Terminus) - Background

Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. Shows high catalytic efficiency for hydrolysis of cocaine, 4-methylumbelliferyl acetate, heroin and 6-monoacetylmorphine.

CES2 / Esterase Antibody (C-Terminus) - References

Schwer H.,et al.Biochem. Biophys. Res. Commun. 233:117-120(1997).
Pindel E.V.,et al.J. Biol. Chem. 272:14769-14775(1997).
Sone T.,et al.Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).