

Anti-CES2 Antibody

Rabbit polyclonal antibody to CES2 Catalog # AP59757

Product Information

Application WB, IHC **Primary Accession** 000748

Reactivity Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW61807

Additional Information

Gene ID 8824

Other Names ICE; Cocaine esterase; Carboxylesterase 2; CE-2; hCE-2;

Methylumbelliferyl-acetate deacetylase 2

Target/Specificity KLH-conjugated synthetic peptide encompassing a sequence within the center

region of human CES2. The exact sequence is proprietary.

Dilution WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC

(1/100 - 1/200)

Format Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30%

glycerol, and 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name CES2 (<u>HGNC:1864</u>)

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:<u>9169443</u>). Hydrolyzes aspirin, substrates with large alcohol group and small acyl group and endogenous lipids such as triacylglycerol (PubMed:<u>28677105</u>). Converts monoacylglycerides to free fatty acids and glycerol. Hydrolyzes of 2- arachidonoylglycerol and prostaglandins

(PubMed:21049984).

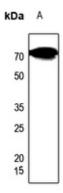
Cellular Location Endoplasmic reticulum lumen

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

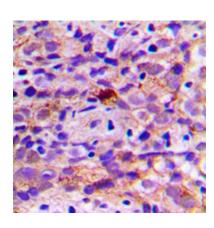
Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CES2. The exact sequence is proprietary.

Images



Western blot analysis of CES2 expression in rat kidney (A) whole cell lysates.



Immunohistochemical analysis of CES2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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