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CES2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant CES2.
Catalog # AT1499a

Product Information

Application	WB, IHC, E
Primary Accession	O00748
Other Accession	NM_003869
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	4F12
Calculated MW	61807

Additional Information

Gene ID	8824
Other Names	Cocaine esterase, Carboxylesterase 2, CE-2, hCE-2, Methylumbelliferyl-acetate deacetylase 2, CES2, ICE
Target/Specificity	CES2 (NP_003860, 514 a.a. ~ 621 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CES2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

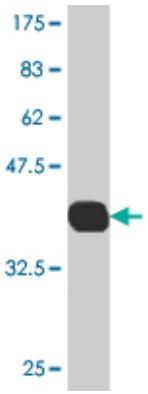
Background

This gene encodes a member of the carboxylesterase large family. The family members are responsible for the hydrolysis or transesterification of various xenobiotics, such as cocaine and heroin, and endogenous substrates with ester, thioester, or amide bonds. They may participate in fatty acyl and cholesterol ester metabolism, and may play a role in the blood-brain barrier system. The protein encoded by this gene is the major intestinal enzyme and functions in intestine drug clearance. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

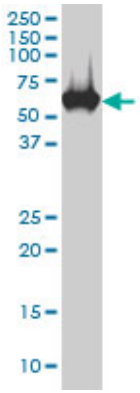
References

1.Clinical implications of CES2 RNA expression in neuroblastoma.Uchida K, Otake K, Tanaka K, Hashimoto K, Saigusa S, Matsushita K, Koike Y, Inoue M, Ueeda M, Okugawa Y, Inoue Y, Mohri Y, Kusunoki MJ Pediatr Surg. 2013 Mar;48(3):502-9. doi: 10.1016/j.jpedsurg.2012.10.004.2.Human Carboxylesterase-2 Hydrolyzes the Prodrug of Gemcitabine (LY2334737) and Confers Prodrug Sensitivity to Cancer Cells.Pratt SE, Durland-Busbice S, Shepard RL, Heinz-Taheny K, Iversen PW, Dantzig AHClin Cancer Res. 2013 Mar 1;19(5):1159-68. doi: 10.1158/1078-0432.CCR-12-1184. Epub 2013 Jan 16.

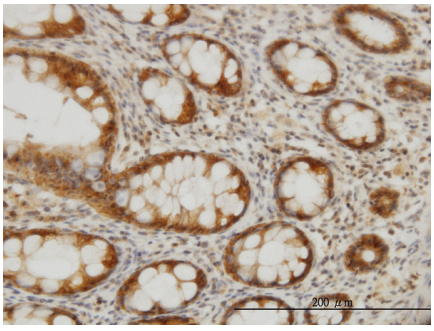
Images



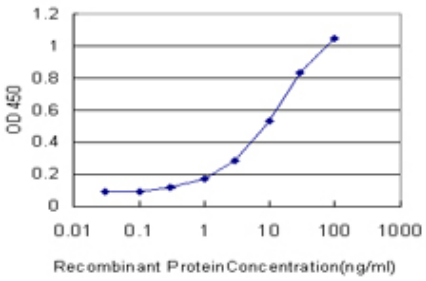
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.62 KDa) .



CES2 monoclonal antibody (M02), clone 4F12 Western Blot analysis of CES2 expression in HepG2 ((Cat # AT1499a)



Immunoperoxidase of monoclonal antibody to CES2 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged CES2 is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.