Human Carboxylesterase 2/CES2 Alexa Fluor® 700-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5657N
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Carboxylesterase 2/CES2 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human CES1, recombinant mouse (rm) CES2, rmCES3, and rmCES5 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Carboxylesterase 2/CES2 Gln27-Leu559 Accession # O00748
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CES2 (Carboxylesterase 2; also CE-2) is a glycosylated, monomeric member of the type-B carboxyesterase/lipase family of enzymes. Although it runs at 59-62 kDa in SDS-PAGE, Gel filtration assigns an 80 kDa MW to it. CES2 is an ER luminal enzyme that catalyzes the conversion of carboxlic ester to alcohol. It is found in small intestine and liver, and likely participates in the detoxification of drugs. Mature human CES2 is 533 amino acids (aa) in length (aa 27-559). It contains a catalytic site composed of Ser228Glu345His457, and an ER-retention motif over aa 556 - 559. Individually or in combination, splice variants may show an alternate start site 64 aa upstream of the standard site, a Val substitution for aa 458-474, or a nine aa insertion after Met1. Over the length of the precursor (aa 1-559) human CES2 shares 72% aa identity with mouse CES2.

PRODUCT SPECIFIC NOTICES

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