

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects recombinant mouse Carboxylesterase 3/CES3 in direct ELISAs and Western blots. Detects intrinsic CES3 in mouse and rat tissues in Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) CES1, rhCES2, recombinant m
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Carboxylesterase 3/CES3 Tyr19-Glu561 Accession # Q8VCT4
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.
Immunoprecipitation	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

Carboxylesterase 3 is a member of a large family of carboxylesterases that are responsible for the hydrolysis of ester and amide bonds (1, 2). These carboxylesterases are widely distributed in mammalian tissues and have broad substrate specificity ranging from small molecule esters such as phenylester to long-chain fatty acid esters and thioesters. Because many ester-containing drugs require the ester linkage to improve the bioavailability of therapeutic agents, CESs play a major role in drug metabolism and activation. CES3 is also known as triacylglycerol hydrolase for its lipolytic activity. It has been reported to be the major lipase in white adipose tissue (3). Mouse CES3 shares 93% homology with rat CES3.

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