# Mouse/Rat Carboxylesterase 3/CES3 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5985G
100 µg

## DESCRIPTION

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| **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<br>Tyr19-Glu561<br>Accession # Q8VCT4 |
| **Conjugate** | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| **Formulation** | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.*

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| **Western Blot** | Optimal dilution of this antibody should be experimentally determined. |
| **Immunoprecipitation** | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

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| **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.

## PRODUCT SPECIFIC NOTICES

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