

Datasheet for 200-4169-0100**Esterase Antibody****Overview**

Description:	Anti-ESTERASE (RABBIT) Antibody - 200-4169-0100
Item No.:	200-4169-0100
Size:	100 µg
Reactivity:	Pig
Host Species:	Rabbit

Product Details

Background:	Esterase is involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. It is active towards triacylglycerides containing short-chain fatty acids from C2 to C6, and 13-monoacylglycerols containing fatty acids from C2 to C12; and inactive on long-chain triacylglycerols and diacylglycerol. It hydrolyzes aromatic and alkyl esters and vitamin A acetate. The hydrolysis rate depends upon the amino acid promoiety and the esterification site of the prodrug. Aromatic promoieties are favored, highest rates are observed with phenylalanyl prodrugs, hydrolysis of valyl and isoleucyl prodrugs is less efficient. With floxuridine prodrugs, activity is higher on 5' monoesters than on 3' monoesters; while with gemcitabine prodrugs, activity is higher on 3' monoesters than on 5' monoesters.
Synonyms:	rabbit anti-Esterase Antibody, Liver carboxylesterase, Proline-beta-naphthylamidase, Retinyl ester hydrolase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CES3
Reactivity:	Pig
Immunogen Type:	Native Protein
Immunogen:	Esterase [Porcine Liver]

Purity/Specificity: Anti-Esterase is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum as well as purified and partially purified Esterase [Porcine Liver]. Cross reactivity against Esterase from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - Q29550](#)
- [NCBI - 343791015](#)
- [GeneID - 100626873](#)

Application Details

Application Note: Anti-Esterase is suitable for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:50,000

WB: 1:1,000 - 1:5,000

Formulation

Physical State: Lyophilized

Concentration: 0.981 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

Reconstitution Volume: 100 µL

Reconstitution Buffer: Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition: Ambient

Storage Condition: Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.