

Datasheet for 200-603-206**Alanine Transaminase Antibody Peroxidase Conjugated****Overview**

Description:	Anti-Alanine Transaminase (SHEEP) Antibody Peroxidase Conjugated (BULK ORDER) - 200-603-206
Item No.:	200-603-206
Size:	20 mg
Reactivity:	Pig
Host Species:	Sheep

Product Details

Background:	Alanine Transaminase is a transaminase enzyme that catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. Alanine Transaminase is found in plasma and in various bodily tissues, but is most commonly associated with the liver. It participates in cellular nitrogen metabolism and also in liver gluconeogenesis starting with precursors transported from skeletal muscles.
Synonyms:	sheep anti-Alanine Transaminase HRP conjugated Antibody, peroxidase conjugated sheep anti-Alanine Transaminase Antibody, AAT1 antibody, Alanine aminotransferase 1 antibody, alanine aminotransferase antibody, ALT 1 antibody, ALT1 antibody, Glutamic alanine transaminase 1 antibody
Host Species:	Sheep
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GPT
Reactivity:	Pig
Immunogen Type:	Native Protein
Immunogen:	Alanine Transaminase (ALT) [Pig Heart]

Purity/Specificity: Alanine Transaminase 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-Peroxidase, anti-Sheep Serum as well as purified and partially purified Alanine Transaminase (ALT) [Pig Heart]. Cross reactivity against Alanine Transaminase (ALT) from other sources is unknown.

Relevant Links:

- [UniProtKB - P13191](#)
- [NCBI - 113565](#)
- [GeneID - 2875](#)

Application Details

Application Note: Anti-Alanine Transaminase has been assayed against 1.0 µg of Alanine Transaminase (ALT) [Pig Heart] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:3,000 of the reconstitution concentration is suggested for this product.

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

ELISA: 1:10,000 - 1:40,000

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

Formulation

Physical State: Lyophilized

Concentration: 10 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) Gentamicin Sulfate. Do NOT add Sodium Azide!

Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Reconstitution Volume: 2.0 mL

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.