

Datasheet for 200-403-046S

Alpha-1-Acid Glycoprotein Antibody Peroxidase Conjugated

Overview

Description:	Anti-Alpha-1-Acid Glycoprotein (RABBIT) Antibody Peroxidase Conjugated - 200-403-046S
Item No.:	200-403-046S
Size:	25 µL
Applications:	Dot Blot, ELISA
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Alpha-1-Acid Glycoprotein Antibody detects alpha-1-acid glycoprotein (AGP or AAG.) Alpha-1-acid glycoprotein is an acute phase (acute phase protein) plasma alpha-globulin glycoprotein and is modulated by two polymorphic genes. It is synthesized primarily in hepatocytes and has a normal plasma concentration between 0.6-1.2 mg/mL (1-3% plasma protein).[1] Plasma levels are affected by pregnancy, certain drugs, and certain diseases, particularly HIV. The only established function of ORM is to act as a carrier of basic and neutrally charged lipophilic compounds. In medicine, it is known as the primary carrier of basic drugs (whereas albumin carries acidic drugs), steroids, and protease inhibitors. Aging causes a small decrease in plasma albumin levels; if anything, there is a small increase in α 1 acid glycoprotein. The effect of these changes on drug protein binding and drug delivery, however, appear to be minimal. Anti-Alpha-1-Acid Glycoprotein Antibody is ideal for investigators involved in infectious disease and cell cycle protein research.
Synonyms:	rabbit anti-Alpha-1-Acid Glycoprotein Antibody Peroxidase Conjugation, HRP conjugated rabbit anti-Alpha-1-Acid Glycoprotein 1 Antibody, AGP1, AGP 1, OMD 1, OMD1, Orosomucoid-1
Host Species:	Rabbit
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ORM1
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Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	a-1-Acid Glycoprotein [Human Plasma]
Purity/Specificity:	Anti-Alpha-1-Acid Glycoprotein Antibody 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-Rabbit Serum as well as purified and partially purified a-1-Acid Glycoprotein [Human Plasma]. Cross reactivity against a-1-Acid Glycoprotein from other sources is unknown.
Relevant Links:	• UniProtKB - P02763 • NCBI - NP_000598.2 • GeneID - 5004

Application Details

Tested Applications:	Dot Blot, ELISA
Application Note:	Anti-Alpha-1-Acid Glycoprotein peroxidase Antibody has been tested by ELISA and dot blot and is suitable for Western Blot and Immunohistochemistry. 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:	1:15,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:5,000
Other:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 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

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
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.