



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Datasheet for 800-101-098**Fab Biotin Antibody****Overview**

Description:	Fab Anti-Biotin (GOAT) Antibody - 800-101-098
Item No.:	800-101-098
Size:	1 mg
Applications:	Dot Blot, ELISA, Biochemical Assay, EM
Reactivity:	Biotin
Host Species:	Goat

Product Details

Background:	Fab Biotin antibody recognizes Biotin. Biotin, also known as vitamin H or coenzyme R, is a water-soluble B-vitamin (vitamin B7). It is composed of a ureido (tetrahydroimidizalone) ring fused with a tetrahydrothiophene ring. A valeric acid substituent is attached to one of the carbon atoms of the tetrahydrothiophene ring. Biotin is a coenzyme for carboxylase enzymes, involved in the synthesis of fatty acids, isoleucine, and valine, and in gluconeogenesis.
Synonyms:	Goat Fab Anti-Biotin Antibody, Goat Fab Fragment Anti-Biotin Antibody
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG Fab

Target Details

Reactivity:	Biotin
Immunogen Type:	Other
Immunogen:	Biotin conjugated to Keyhole Limpet Hemocyanin (KLH)
Purity/Specificity:	Fab fragment of Anti-Biotin antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Biotin coupled to sepharose beads followed by papain digestion and chromatographic separation. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum. No reaction was observed against anti-papain or anti-Goat IgG F(c).

Application Details

Tested Applications:	Dot Blot, ELISA
Suggested Applications:	Biochemical Assay, EM (Based on references)
Application Note:	Fab Anti-Biotin Antibody has been tested by ELISA and dot 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:	1:5,000
IHC:	User Optimized
WB:	User Optimized

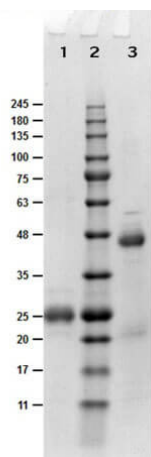
Formulation

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) Sodium Azide
Stabilizer:	None

Shipping & Handling

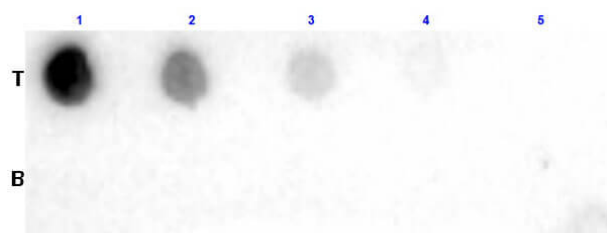
Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



SDS-PAGE

SDS-PAGE results of Goat Fab Anti-Biotin Antibody. Lane 1: reduced Goat Fab Anti-Biotin. Lane 2: Opal PreStained Molecular Weight Ladder (p/n MB-210-0500). Lane 3: non-reduced Goat Fab Anti-Biotin. Load: 1µg. 4-20% Gel, Coomassie Blue Stained.



Dot Blot

Dot Blot results of Goat Fab Anti-Biotin Antibody. Dots are top row (T) Biotin-BSA conjugated or bottom row (B) BSA alone: at (1) 100ng, (2) 33.3ng, (3) 11.1ng, (4) 3.70ng, (5) 1.23ng. Blocking: MB-070 for 30 min at RT. Primary Antibody: Goat Fab Anti-Biotin at 1µg/mL for 1hr at RT. Secondary Antibody: Donkey Anti-Goat HRP (p/n 605-703-125) at 1:40,000 for 30min at RT. Imaged with BioRad ChemiDoc, Chemi filter.

References

- Kanai T et al. Three-Dimensional Reconstruction of the Hepatitis C Virus Envelope Glycoprotein E1E2 Heterodimer by Electron Microscopic Analysis. *J Virol.* (2023)
- Eggenberger OM et al. Fluid surface coatings for solid-state nanopores: comparison of phospholipid bilayers and archaea-inspired lipid monolayers. *Nanotechnology.* (2019)
- Houghtaling J et al. Estimation of Shape, Volume, and Dipole Moment of Individual Proteins Freely Transiting a Synthetic Nanopore. *ACS Nano.* (2019)
- Ji Y et al. Quantifying Weak Glycan-Protein Interactions Using a Biolayer Interferometry Competition Assay: Applications to ECL Lectin and X-31 Influenza Hemagglutinin. *Adv Exp Med Biol.* (2018)
- Yusko EC et al. Real-time shape approximation and fingerprinting of single proteins using a nanopore. *Nature Nanotechnology* (2017)
- Yusko EC et al. Controlling protein translocation through nanopores with bio-inspired fluid walls. *Nature Nanotechnology* (2011)

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.