

Anti-BIOTIN Ligase EPITOPE TAG (RABBIT) Antibody - 100-401-B21

Code: 100-401-B21

Size: 100 µL

Product Description: Anti-BIOTIN Ligase EPITOPE TAG (RABBIT) Antibody - 100-401-B21

Concentration: 70 mg/ml by Refractometry

PhysicalState: Liquid (sterile filtered)

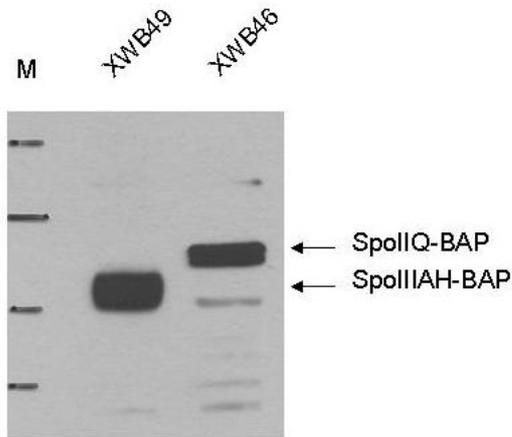
Label	Unconjugated
Host	Rabbit
Gene Name	BirA
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles 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.
Synonyms	rabbit anti-Biotin Ligase Epitope Tag Antibody, rabbit anti-biotin ligase birA antibody, biotin ligase, biotin operon repressor protein, birA, biotin holoenzyme synthetase, biotin-[acetyl-CoA carboxylase] synthetase
Application Note	Anti-Biotin Ligase Epitope Tag Antibody has been tested in ELISA and Western Blot. Western blot analysis of <i>B. subtilis</i> strains producing either (BAP-tagged) SPolIIAH (XWB49) or (BAP-tagged) SPolIIQ (XWB46) showed strong and specific reactivity to the antisera. Minor background bands of unknown identity may be observed. The antisera will recognize the BAP/BLT tag irrespective of the whether the tag is biotinylated (data not shown).
Background	The peptide is also called the biotin acceptor peptide (BAP) of the biotin carboxyl carrier protein (BCCP) subunit of acetyl CoA carboxylase of <i>E. coli</i> .
Purity And Specificity	This antiserum detects the minimal peptide substrate (GLNDIFEAQKIEWH) for the <i>E. coli</i> biotin ligase tag (BLT of BirA). Western blot analysis of <i>B. subtilis</i> strains producing either (BAP-tagged) SPolIIAH (XWB49) or (BAP-tagged) SPolIIQ (XWB46) showed strong and specific reactivity to the antisera. Minor background bands of unknown identity may be observed. The antisera will recognize the BAP/BLT tag irrespective of the whether the tag is biotinylated (data not shown).
Assay Dilutions	User Optimized
ELISA	1:5,000
Western Blot	1:5,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	GLNDIFEAQKIEWH (minimal BirA substrate; biotin is added to the sequence at the lysine.)
General Reference	Schatz, P.J. (1993) Use of peptide libraries to map the substrate specificity of a peptide-modifying enzyme: a 13 residue consensus peptide specifies biotinylation in <i>Escherichia coli</i> . <i>Biotechnology (NY)</i> , 11, 1138–1143. Beckett D., Kovaleva E., and Schatz P.J., (1999) A minimal peptide substrate in biotin holoenzyme synthetase-catalyzed biotinylation. <i>Protein Sci</i> 8: 921-929.

Related Products

200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268
610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

Images

Western blot using Rockland's Anti-Biotin Ligase Epitope Tag antibody shows detection of the BLT Ligase Target in lysates of whole cell *Bacillus subtilis* strains producing either BAP-tagged (Biotin-Acceptor Peptide-tagged) SpoIIAH (XWB49) (~ 25 kDa) or BAP-tagged SpoIIQ (XWB46) (~33 kDa). These proteins regulate transcription in *Bacillus subtilis*. The identity of the lower molecular weight bands in the last lane is unknown. Personal communication, J. Meisner, C. Moran, Jr., J. Boss, Emory University School of Medicine, Atlanta, GA.



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.