

Datasheet for 200-301-P46**Spectrin (alpha and beta) Antibody****Overview**

Description:	Anti-Spectrin (alpha and beta) (MOUSE) Antibody - 200-301-P46
Item No.:	200-301-P46
Size:	100 µg
Applications:	WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Spectrin, the predominant component of the membrane skeleton of the red cell, is essential in determining the properties of the membrane including its shape and deformability. It consists of 2 nonidentical subunits, alpha and beta. Spectrin is present in the red cell membrane in a tetrameric or possibly higher polymeric form through head-to-head self-association of heterodimers that are linked by actin polymers and protein 4.1 to form a 2-dimensional network. Non-erythroid spectrin gene is mapped to human chromosome 2. Spectrin mutations cause spinocerebellar ataxia type 5. This antibody is suitable for researchers interested in cytoskeleton and transcription factor research.
Synonyms:	EL2, HPP, HS3, SPH3, SPTA, SPTA1, EL3, HS2, SPH2, HSPTB1, Erythroid alpha-spectrin, Spectrin alpha chain erythrocytic 1, Spectrin beta chain erythrocytic, Beta-I spectrin, SPTB, SPTB1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	SB-SP1
Format:	IgG1

Target Details

Gene Name:	SPTA1/SPTB
Reactivity:	Human
Immunogen Type:	Other

Immunogen:	Spectrin(alpha and beta) antibody was produced in mice by repeated immunizations with human erythrocyte spectrin.
Purity/Specificity:	Anti-Spectrin antibody was purified from mouse ascites by protein A chromatography. This product reacts with human. Cross reactivity with Spectrin from other sources has not been determined.
Relevant Links:	• UniProtKB - P11277 • UniProtKB - P02549 • GeneID - 6708 • NCBI - NP_003117.2

Application Details

Tested Applications:	WB
Application Note:	Anti-Spectrin is tested for Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~246-280 kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:40,000
WB:	2-4ug/ml

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1.2% sodium acetate
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	2mg BSA
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Neutral PBS

Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition: Store vial at 4° 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.

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.