

Datasheet for 600-401-EL4**SIRP alpha Antibody****Overview**

Description:	Anti-SIRP alpha (RABBIT) Antibody - 600-401-EL4
Item No.:	600-401-EL4
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Protein tyrosine phosphatases (PTPases) SHP-1 and SHP-2 are critical regulators in the intracellular signaling pathways that result in cell responses such as mitosis, differentiation, migration, survival, transformation or death. SHP-2 is a signal transducer for several receptor tyrosine kinases and cytokine receptors. A novel SHP-2 associated glycoprotein was recently cloned from human, rat, mouse and cattle by several labs and was designated SIRPalph, SHPS-1, MyD-1, BIT and p84. SIRPalph is a new gene family containing at least fifteen members. SIRPalph is a substrate of many activated tyrosine kinases such as insulin receptor, EGFR, PDGFR and src, and a specific docking protein for SHP-2. SIRPalph has regulatory effects on cellular responses induced by serum, growth factors, insulin, oncogenes, growth hormones and cell adhesion and plays a general role in different physiological and pathological processes.
Synonyms:	SIRP alpha Antibody, BIT, MFR, P84, SIRP, MYD-1, SHPS1, CD172A, PTPNS1, BIT, MYD1, Tyrosine-protein phosphatase non-receptor type substrate 1, Brain Ig-like molecule with tyrosine-based activation motifs, SHP substrate 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SIRPA
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SIRP alpha antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to amino acids near the C-terminus of human SIRP alpha 1. The sequences of the immunogenic peptide differ from those of mouse, rat and bovine by one amino acid.
Purity/Specificity:	Anti-SIRP alpha Antibody is affinity chromatography purified via peptide column. Recognizes SIRP alpha 1, 2 and 3.
Relevant Links:	• UniProtKB - P78324 • GeneID - 140885 • NCBI - NP_542970

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-SIRP alpha Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 55 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000-1:10,000
WB:	0.5-1 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

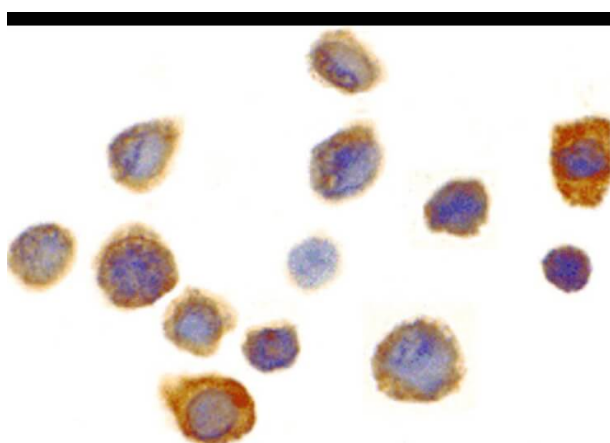
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

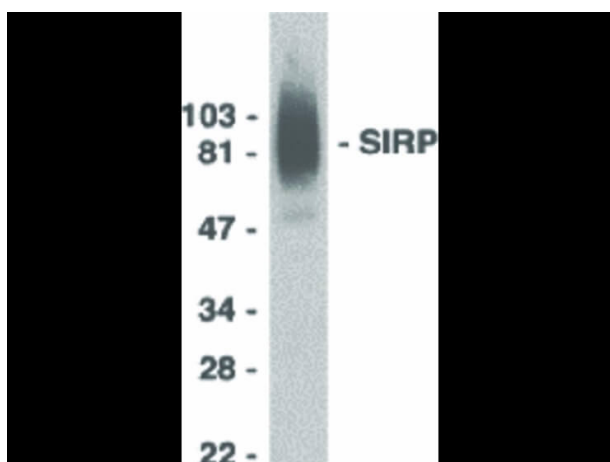
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunocytochemistry of Rabbit anti-SIRP alpha antibody.
 Cell Type: THP-1 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: anti-SIRP alpha antibody at 1 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SIRP alpha is extracellular and membrane bound. Staining: SIRP as precipitated brown signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of Rabbit anti-SIRP alpha antibody. Lane 1: THP-1 cell lysate. Load: 35 µg per lane. Primary antibody: anti-SIRP antibody at 1:2000 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 55 kDa, 81-103 kDa for SIRP. Other band(s): SIRP splice variants and isoforms.

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.