

Datasheet for 600-401-449**SH3BP2 phospho S427 Antibody****Overview**

Description:	Anti-SH3BP2 pS427 (RABBIT) Antibody - 600-401-449
Item No.:	600-401-449
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	SH3BP2 Src Homology 3 Binding Protein 2 is also known as 3BP-2 and SH3 Binding Protein 2. The Src homology 3 (SH3) region is a small protein domain presented in a very large group of proteins, including cytoskeletal elements and signaling proteins. SH3 domains are believed to serve as modules that mediate protein-protein associations and, along with Src homology 2 (SH2) domains, regulate cytoplasmic signaling. SH3BP2 is composed of an N terminal pleckstrin homology (PH) domain, a ten aa SH3 binding domain, three modular peptide recognition domains, and a C terminal SH2 domain. SH3BP2 function relates to signal transduction and regulation. SH3BP2 binds differentially to the SH3 domains of certain proteins of signal transduction pathways. Phosphorylation of SH3BP2 occurs on S427 for activation. SH3BP2 mediates interactions of huntingtin and MLK2 (mixed lineage kinase). Defects in SH3BP2 are the cause of cherubism (CRBM), an autosomal dominant inherited syndrome. It is characterized by excessive bone degradation of the upper and lower jaws, which often begins around three years of age. It is followed by development of fibrous tissue masses, which causes a characteristic facial swelling.
Synonyms:	rabbit anti-SH3BP2 pS427 antibody, phosphorylated SH3BP2 antibody, SH3 domain-binding protein 2, SH3BP2 Src homology 3 Binding Protein 2, 3BP-2, RES4-23, 3BP2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SH3BP2
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Reactivity:	Human, Mouse, Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic phospho-peptide corresponding to an internal region near aa 415-440 of Human SH3BP3 protein (SH3 Domain Binding Protein 2).
Purity/Specificity:	This product is an affinity purified antibody produced by immunoaffinity chromatography and is phospho specific for human pS427.
Relevant Links:	• UniProtKB - P78314 • NCBI - 170014703 • GenelD - 10825

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 60 kDa in size corresponding to SH3BP2 by western blotting in 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:	1:2,000 - 1:10,000
IP:	1:100
WB:	1:500 - 1:2,000

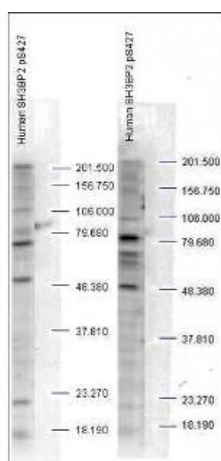
Formulation

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:	Dry Ice
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



Western Blot

Western blot analysis is shown using Rockland's Affinity Purified anti-SH3BP2 pS427 antibody to detect endogenous protein present in unstimulated human whole cell lysates. The band as indicated by the arrowheads is evident in both M059 cells (panel A) and PC-3 cells (panel B). Comparison to a molecular weight marker indicates a band of ~60 kDa corresponding to human SH3BP2 protein. The blot was incubated with a 1:500 dilution of the antibody at room temperature followed by detection using standard techniques. Personal communication Steven Pelech, Kinexus Inc.

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.