BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Phospho-SH3BP2 S427 Antibody

Catalog Number: P04008

About SH3BP2

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.

Overview

Product Name	Anti-Phospho-SH3BP2 S427 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-SH3BP2 S427 Antibody (Catalog # P04008). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IP, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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 date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P78314

Technical Details

Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 415-440 of Human SH3BP3 protein (SH3 Domain Binding Protein 2).
Predicted Reactive Species	Bovine, Canine, Chicken, Chimpanzee
Isotype	IgG

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Form	Liquid (sterile filtered)
Concentration	1.0 mg/mL by UV absorbance at 280 nm
Purification	This product is an affinity purified antibody produced by immunoaffinity chromatography and is phospho specific for human pS427.
Suggested Dilutions	ELISA: 1:2,000 - 1:10,000 IP: 1:100 WB: 1:500 - 1:2,000 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.

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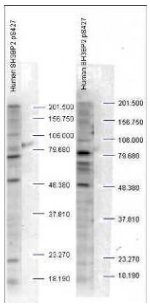
Anti-Phospho-SH3BP2 S427 Antibody (P04008) Images



Western blot analysis is shown using Boster'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.

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