BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Sipa1 Antibody

Catalog Number: A05549

About SIPA1

This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. Sipa1 (signal-induced proliferation associated gene 1) is a mitogen-induced GTPase activating protein (GAP). It exhibits a specific GAP activity for Ras-related regulatory proteins Rap1 and Rap2, but not for Ran or other small GTPases. This protein may also hamper mitogen-induced cell cycle progression when abnormally or prematurely expressed. Sipa1 is localized to the perinuclear region. Two alternatively spliced variants encoding the same isoform have been characterized to date.

Overview

Product Name	Anti-Sipa1 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Sipa1 Antibody (Catalog # A05549). Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, IHC, 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	P46062

Technical Details

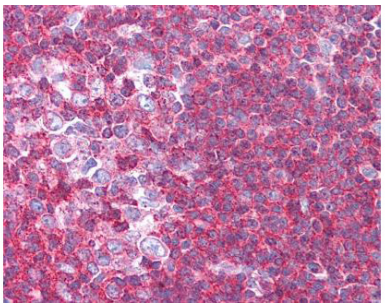
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the amino terminus of mouse Sipa1.
Predicted Reactive Species	Bovine, Canine, Chicken, Monkey
Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1.25 mg/mL by UV absorbance at 280 nm
Purification	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography.

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

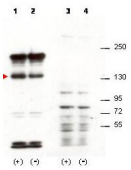
	This antibody is specific for mouse Sipa1 protein. A BLAST analysis was used to suggest cross-reactivity with Sipa1 from mouse, human and rat based on a 100% homology with the immunizing sequence. Cross-reactivity with Sipa1 from other sources has not been determined.
Suggested Dilutions	ELISA: 1:20,000 IHC: 1.25-2.5 µg/ml WB: 1:1,000 - 1:5,000 This affinity purified antibody has been tested for use in ELISA, immunohistochemistry, and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 130 kDa in size corresponding

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

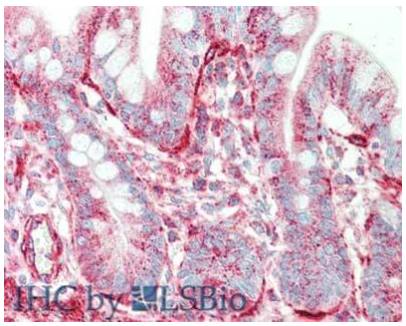
Anti-Sipa1 Antibody (A05549) Images



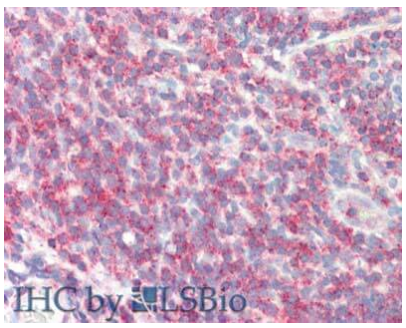
Boster's affinity purified anti-Sipa1 antibody was used at 1.25 ug/ml to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides. This image shows moderate to strong positive staining of lymphocytes within human tonsil at 40X. Tissue was formalin-fixed and paraffin embedded. The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.



Western blot using Boster's affinity purified anti-Sipa1 antibody shows detection of over-expressed Sipa1 in lysates from mouse 3T3 cells transfected with Sipa1 (lane 1). Endogenous Sipa1 is detected in lane 2, which contains lysate from 3T3 cells mock-transfected with LacZGLB, although at a significantly reduced level compared to transfected cells. Lane 3 and 4 are similar to lanes 1 and 2 except the antibody was preincubated with the immunizing peptide prior to reaction with the membrane. The identity of the higher and lower molecular weight bands is unknown. The band at ~130 kDa, indicated by the arrowhead, corresponds to recombinant Sipa1. Primary antibody was used at 1:1250. Personal communication, H. Yang, L. Lukes and K. Hunter, NCI, Bethesda, MD.



Immunohistochemistry of rabbit anti-Sipa1 antibody. Tissue: small intestine. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-Sipa1 at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Sipa-1 as precipitated red signal with hematoxylin purple nuclear counterstain.



Immunohistochemistry of rabbit anti-Sipa1 antibody. Tissue: tonsil. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-Sipa1 at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Sipa-1 as precipitated red signal with hematoxylin purple nuclear counterstain.

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

reviews help your fellow scientists make the right decisions. Thank you for your contribution.

Anti-Sipa1 Antibody

For Research Use Only. Not for use in diagnostic procedures.