

Datasheet for ABIN968380

anti-G3BP1 antibody (AA 210-323)[2 Images](#)[2 Publications](#)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	G3BP1
Binding Specificity:	AA 210-323
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This G3BP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human G3BP aa. 210-323
Clone:	23-G3BP
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	G3BP1
Alternative Name:	G3BP (G3BP1 Products)
Background:	<p>The Ras proteins are low molecular weight GTPases that play a critical role in the control of proliferation, differentiation, and cytoskeletal organization. RasGAP acts as a negative regulator of Ras, as well as a downstream target of Ras. It participates in the signal transduction cascade through interactions with other signaling proteins. Via its C-terminal domain, RasGAP interacts with Ras, but the N-terminus interacts with other signaling molecules such as p62 and p190. This function of RasGAP is mediated by the presence of SH2, SH3, and PH domains in the N-terminal region. However, some signaling proteins cannot bind to these domains. In an attempt to identify RasGAP-interacting molecules, a GAP SH3-Binding Protein (G3BP) was identified. This protein exhibits sequence homology to the hnRNP superfamily. It contains RNP1 and RNP2 motifs and is found primarily in the cytosol. G3BP interacts with GAP in proliferating cells and is dependent on the activation state of Ras. In addition, G3BP contains an intrinsic endonuclease activity that cleaves 3'-untranslated region (3'-UTR) mRNA. These data indicate that G3BP may link the Ras pathway to mRNA degradation.</p>
Molecular Weight:	55-70 kDa
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Comment:	Related Products: ABIN968552, ABIN967389
Restrictions:	For Research Use only

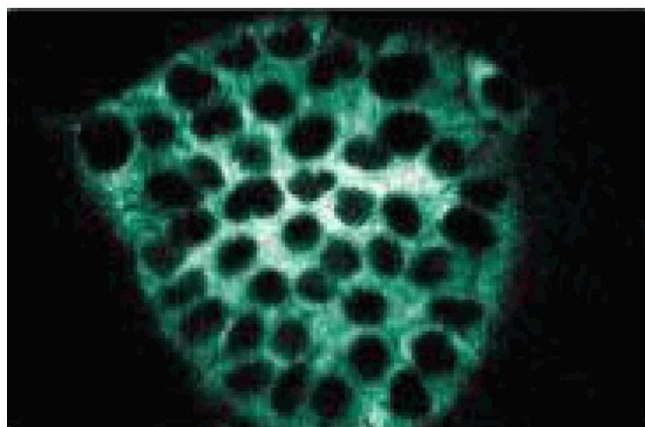
Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

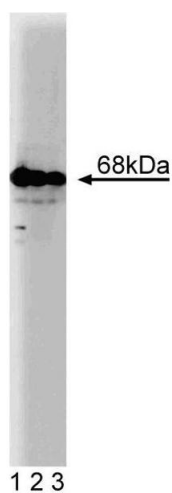
- Product cited in: Gallouzi, Parker, Chebli, Maurier, Labourier, Barlat, Capony, Tocque, Tazi: "A novel phosphorylation-dependent RNase activity of GAP-SH3 binding protein: a potential link between signal transduction and RNA stability." in: **Molecular and cellular biology**, Vol. 18, Issue 7, pp. 3956-65, (1998) ([PubMed](#)).
- Parker, Maurier, Delumeau, Duchesne, Faucher, Debussche, Dugue, Schweighoffer, Tocque: "A Ras-GTPase-activating protein SH3-domain-binding protein." in: **Molecular and cellular biology**, Vol. 16, Issue 6, pp. 2561-9, (1996) ([PubMed](#)).

Images



Immunofluorescence

Image 1. Immunofluorescence staining of A431 cells (Human epithelial carcinoma, ATCC CRL-1555).



Western Blotting

Image 2. Western blot analysis of G3BP on a SW-13 cell lysate (Human adrenal gland carcinoma, ATCC CCL-105). Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-human G3BP antibody. G3BP may be observed migrating in a range of 55-70 kDa.