

SH3BP1 Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS13074**Specification**

SH3BP1 Antibody (C-Terminus) - Product Information

Application	IHC
Primary Accession	O9Y3L3
Reactivity	Human, Monkey
Host	Goat
Clonality	Polyclonal
Calculated MW	76kDa KDa

SH3BP1 Antibody (C-Terminus) - Additional Information**Gene ID** 23616**Other Names**

SH3 domain-binding protein 1, 3BP-1, SH3BP1

Target/Specificity

Human SH3BP1.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

SH3BP1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

SH3BP1 Antibody (C-Terminus) - Protein Information**Name** SH3BP1 ([HGNC:10824](#))**Function**

GTPase activating protein (GAP) which specifically converts GTP-bound Rho-type GTPases including RAC1 and CDC42 in their inactive GDP-bound form. By specifically inactivating RAC1 at the leading edge of migrating cells, it regulates the spatiotemporal organization of cell protrusions which is important for proper cell migration (PubMed:<[a href="http://www.uniprot.org/citations/21658605" target="_blank">21658605](http://www.uniprot.org/citations/21658605)). Also negatively regulates CDC42 in the process of actin remodeling and the formation of epithelial cell junctions (PubMed:<[a href="http://www.uniprot.org/citations/22891260" target="_blank">22891260](http://www.uniprot.org/citations/22891260)). Through its GAP activity toward RAC1 and/or CDC42 plays a specific role in phagocytosis of large particles. Specifically recruited by a PI3 kinase/PI3K-dependent mechanism to sites of large particles engagement, inactivates RAC1 and/or CDC42 allowing the reorganization of the underlying actin cytoskeleton required for engulfment (PubMed:<[a href="http://www.uniprot.org/citations/26465210" target="_blank">26465210](http://www.uniprot.org/citations/26465210)). It also plays a role in angiogenesis and the process of repulsive guidance as part of a

semaphorin-plexin signaling pathway. Following the binding of PLXND1 to extracellular SEMA3E it dissociates from PLXND1 and inactivates RAC1, inducing the intracellular reorganization of the actin cytoskeleton and the collapse of cells (PubMed:24841563).

Cellular Location

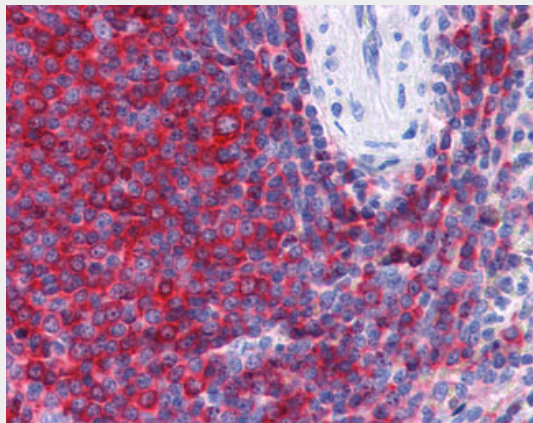
Cell projection. Cell junction, tight junction. Cell junction, adherens junction. Cell projection, phagocytic cup. Nucleus Cytoplasm, cytosol. Note=Localizes at the leading edge of migrating cells (PubMed:21658605, PubMed:24841563) Accumulation at forming phagocytic cups is PI3 kinase/PI3K-dependent and is specific for sites of large particles engagement and their phosphatidylinositol 3,4,5-triphosphate membrane content (PubMed:26465210).

SH3BP1 Antibody (C-Terminus) - Protocols

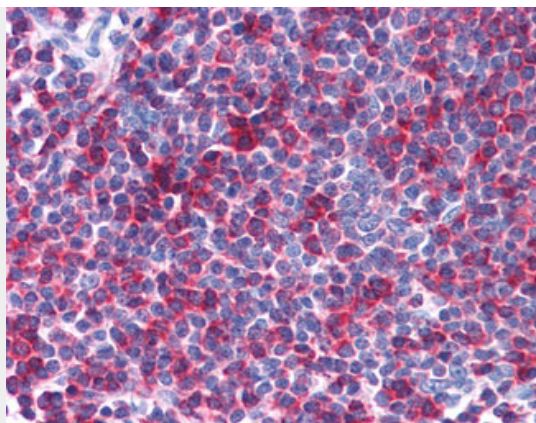
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SH3BP1 Antibody (C-Terminus) - Images



Anti-SH3BP1 antibody IHC of human spleen.



Anti-SH3BP1 antibody IHC of human tonsil.

SH3BP1 Antibody (C-Terminus) - Background

Binds differentially to the SH3 domains of certain proteins of signal transduction pathways. This protein binds preferentially to the ABL1 proto-oncogene, SRC and GRB2. Shows GAP activity for Rac-related proteins but not for Rho- or Ras-related proteins. It inhibits PDGF-induced membrane ruffling mediated by Rac (By similarity).

SH3BP1 Antibody (C-Terminus) - References

- Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Dunham I.,et al.Nature 402:489-495(1999).
- Bechtel S.,et al.BMC Genomics 8:399-399(2007).
- Carrascal M.,et al.J. Proteome Res. 7:5167-5176(2008).