

SH3BP4 Antibody(Center) Blocking peptide
Synthetic peptide
Catalog # BP19380c**Specification**

SH3BP4 Antibody(Center) Blocking peptide - Product InformationPrimary Accession [Q9P0V3](#)**SH3BP4 Antibody(Center) Blocking peptide - Additional Information****Gene ID** 23677**Other Names**

SH3 domain-binding protein 4, EH-binding protein 10, Transferrin receptor-trafficking protein, SH3BP4, BOG25, EHB10, TTP

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SH3BP4 Antibody(Center) Blocking peptide - Protein Information**Name** SH3BP4**Synonyms** BOG25, EHB10, TTP**Function**

May function in transferrin receptor internalization at the plasma membrane through a cargo-specific control of clathrin-mediated endocytosis. Alternatively, may act as a negative regulator of the amino acid-induced TOR signaling by inhibiting the formation of active Rag GTPase complexes. Preferentially binds inactive Rag GTPase complexes and prevents their interaction with the mTORC1 complex inhibiting its relocalization to lysosomes and its activation. Thereby, may indirectly regulate cell growth, proliferation and autophagy.

Cellular LocationMembrane, clathrin-coated pit. Cytoplasmic vesicle, clathrin-coated vesicle. Nucleus
Note=Specifically associated with transferrin receptor-containing clathrin-coated pits and clathrin-coated vesicles. May also localize to the nucleus**Tissue Location**

Expressed in all tissues tested with higher expression in pancreas. Expressed by retinal pigment epithelial cells (at protein level).

SH3BP4 Antibody(Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SH3BP4 Antibody(Center) Blocking peptide - Images**SH3BP4 Antibody(Center) Blocking peptide - Background**

This gene encodes a protein with 3 Asn-Pro-Phe (NPF) motifs, an SH3 domain, a PXXP motif, a bipartite nuclear targeting signal, and a tyrosine phosphorylation site. This protein is involved in cargo-specific control of clathrin-mediated endocytosis, specifically controlling the internalization of a specific protein receptor.

SH3BP4 Antibody(Center) Blocking peptide - References

Sebastiani, P., et al. Science (2010) In press : Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010)
: Thalappilly, S., et al. Proteomics 8(15):3071-3081(2008) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) : Olsen, J.V., et al. Cell 127(3):635-648(2006)