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SH3BP4 Rabbit pAb

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Catalog # AP57651

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9P0V3
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	107496
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SH3BP4
Epitope Specificity	561-660/963
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane > clathrin-coated pit. Cytoplasmic vesicle > clathrin-coated vesicle. Nucleus. Specifically associated with transferrin receptor-containing clathrin-coated pits and clathrin-coated vesicles. May also localize to the nucleus.
SIMILARITY	Contains 1 SH3 domain.
Post-translational modifications	Phosphorylated upon EGF stimulation. Phosphorylation prevents interaction with DNM2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	23677
Other Names	SH3 domain-binding protein 4, EH-binding protein 10, Transferrin receptor-trafficking protein, SH3BP4, BOG25, EHB10, TTP
Target/Specificity	Expressed in all tissues tested with higher expression in pancreas. Expressed by retinal pigment epithelial cells (at protein level).
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

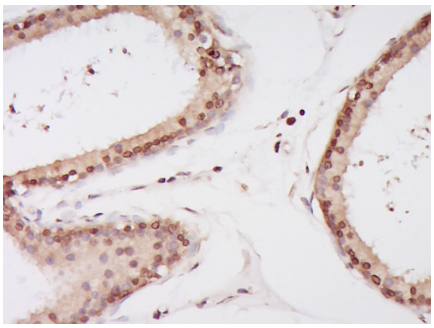
Protein Information

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 Location	Membrane, 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).

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. [provided by RefSeq, Jul 2008]

Images



Paraformaldehyde-fixed, paraffin embedded (Rat prostate); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SH3BP4) Polyclonal Antibody, Unconjugated (AP57651) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.