

PIK3AP1 Rabbit pAb

Catalog # AP96720

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q6ZUJ8
Other Accession	Q6ZUJ8
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90398
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PIK3AP1
Epitope Specificity	601-700/805
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 DBB domain.
SUBUNIT	Homooligomer (By similarity). Interacts (phosphorylated on tyrosine residues within YXXM motifs) with PIK3R1 (via SH2 domain); required for BCR- and TLR-mediated activation of phosphoinositide 3-kinase. Interacts (via polyproline C-terminal region) with ABI1 (via SH3 domain); the interaction promotes phosphorylation of PIK3AP1 by ABL1. May interact with MYD88 and TIRAP (By similarity).
Post-translational modifications	Phosphorylated on tyrosine residues within the YXXM motifs by BTK and SYK (By similarity). Isoform 1 and isoform 2 are phosphorylated on tyrosine residues, most likely within the YXXM motifs, via CD19 activation (By similarity). Phosphorylated on tyrosine residues in C-terminus region by ABL1 and V-abl.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	B cell adaptor for phosphoinositide 3-kinase (BCAP) is a tyrosine kinase substrate that bridges B cell receptor (BCR) associated kinases to the PIK3 pathway. Syk, Btk or Lyn-dependent tyrosine phosphorylation of BCAP, provides binding sites for the p85 subunit of PIK3. BCAP mRNA is present in mouse spleen, thymus, liver, lung, macrophage and B cell lines. Human BCAP maps to chromosome 10q24.2.

Additional Information

Gene ID	118788
Other Names	BCAP; 1810044J04Rik; BCAP_HUMAN; PIK3AP1; B-cell adapter for phosphoinositide 3-kinase; B-cell phosphoinositide 3-kinase adapter protein 1; BCAP_MOUSE; phosphoinositide-3-kinase adaptor protein 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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.
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Protein Information

Name	PIK3AP1
Synonyms	BCAP
Function	Signaling adapter that contributes to B-cell development by linking B-cell receptor (BCR) signaling to the phosphoinositide 3- kinase (PI3K)-Akt signaling pathway. Has a complementary role to the BCR coreceptor CD19, coupling BCR and PI3K activation by providing a docking site for the PI3K subunit PIK3R1. Alternatively, links Toll- like receptor (TLR) signaling to PI3K activation, a process preventing excessive inflammatory cytokine production. Also involved in the activation of PI3K in natural killer cells. May be involved in the survival of mature B-cells via activation of REL.
Cellular Location	Cytoplasm. Cell membrane; Peripheral membrane protein
Tissue Location	Expressed in natural killer (NK) cells.

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