



## Rabbit Anti-PIK3AP1 antibody

SL13675R

<b>Product Name:</b>	PIK3AP1
<b>Chinese Name:</b>	磷酸肌醇3激酶接头蛋白1抗体
<b>Alias:</b>	B cell adaptor protein; B-cell adapter for phosphoinositide 3-kinase; B-cell phosphoinositide 3-kinase adapter protein 1; BCAP; BCAP_HUMAN; OTTHUMP00000020175; OTTHUMP00000020176; Phosphoinositide 3 kinase adaptor protein 1; Phosphoinositide 3-kinase adapter protein 1; PIK3AP1; RP11-34E5.3.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	90kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PIK3AP1:601-700/805
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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.

**Function:**

Involved in the activation of phosphoinositide 3-kinase (PI3K) in B-cells and in natural killer (NK) cells. Couples B-cell antigen receptor (BCR) to PI3K activation by providing a docking site for the PI3K subunit PIK3R1, which contributes to B-cell development. Seems to have a complementary role with CD19 in PI3K activation (By similarity). May be involved in the survival of mature B cells via activation of REL.

**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).

**Subcellular Location:**

Cytoplasm. Cell membrane.

**Tissue Specificity:**

Expressed in natural killer (NK) cells.

**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.

**Similarity:**

Contains 1 DBB domain.

**SWISS:**

Q6ZUJ8

**Gene ID:**

118788

**Database links:**

[Entrez Gene: 118788](#) Human

[Entrez Gene: 83490](#) Mouse

[Omim: 607942](#) Human

[SwissProt: Q6ZUJ8](#) Human

[SwissProt: Q9EQ32](#) Mouse

[Unigene: 310456](#) Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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