

# Mouse Phosphoinositide 3-kinase adapter protein 1 (PIK3AP1) ELISA Kit

Catalog No: #EK8513

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Package Size: #EK8513-1 48T #EK8513-2 96T

## Description

Product Name	Mouse Phosphoinositide 3-kinase adapter protein 1 (PIK3AP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	BCAP; RP11-34E5.3; 1810044J04Rik B cell adaptor protein
Accession No.	Q9EQ32
Uniprot	Q9EQ32
GeneID	83490;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:23.44-1500 pg/mL

Sensitivity:5.86 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PIK3AP1 in samples. An antibody specific for PIK3AP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPIK3AP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PIK3AP1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PIK3AP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Using an affinity purification strategy with the N-terminal SH2 domain of the phosphoinositide 3-kinase (PI3K) p85 subunit and anti-phosphotyrosine antibody, followed by screening a chicken DT40 B-cell cDNA library and a mouse spleen cDNA library, Okada et al. (2000) isolated cDNAs encoding chicken and mouse Pik3ap1, which they called Bcap. They also identified Bcap splice variants. Northern blot analysis of mouse tissues detected expression predominantly in spleen, with lower levels in thymus, liver, and lung. Expression was also detected in mouse macrophage and B-cell lines, but not in T-cell, plasma cell, or mast cell lines.Using mouse and chicken B- cell lines, Okada et al. (2000) determined that Bcap is a protein tyrosine kinase substrate that couples B-cell receptor to PI3K activation.

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Note: This product is for in vitro research use only