

# AB-PK908

## PINK1-pS402 Antibody

Phosphosite-specific rabbit polyclonal antibody for PINK1 (BRPK). This phosphoserine-site antibody also cross-reacts with phosphothreonine and glutamic acid substitutions in the phosphosite.

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### Target Protein

<b>Protein Name Long:</b>	Serine/threonine-protein kinase PINK1, mitochondrial
<b>Protein Alias:</b>	Parkinson disease (autosomal recessive) 6; EC 2.7.11.1; PARK6; BRPK; FLJ27236; PTEN induced putative kinase 1; Phosphatase and Tensin Homologue
<b>UniProt ID:</b>	Q9BXM7
<b>Protein Molecular Mass:</b>	62,769 Da (581 AA; Q9BXM7-1); 30,104 Da (274 AA; Q9BXM7-2)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PINK1
<b>Antibody Immunogen Sequence:</b>	PFS(pS)WYV(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues P399 to V405. S402 phosphorylation stimulates phosphotransferase activity. This is a minor <i>in vivo</i> phosphorylation site in PINK1 (≥1 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PINK1 is known to be phosphorylated at this site <i>in vitro</i> by PINK1.
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Rhesus Macaque   Rat   Mouse   Zebra fish

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987