AB-PK942

PINK1-pT257 Antibody

Phosphosite-specific rabbit polyclonal antibody for PINK1 (BRPK)

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Target Protein

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

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PINK1
Antibody Immunogen Sequence:	CGAV(pT)YRK
Antibody Immunogen Description:	Corresponds to amino acid residues G254 to K260. T257 phosphorylation inhibits cellular apoptosis. This is a minor in vivo phosphorylation site in PINK1 (≥3 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PINK1 is known to be phosphorylated at this site *in vitro* by PINK1.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep peptide 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.
Amount:	25 µg
Antibody Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	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.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting | Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human | Rhesus Macaque | Rat | Mouse