

AB-PK939

LRRK2-pT2031+pS2032 Antibody

Phosphosite-specific rabbit polyclonal antibody for LRRK2 (PARK8)



KINEXUS

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Target Protein

Protein Name Long:	Leucine-rich repeat protein-serine/threonine kinase 2
Protein Alias:	Leucine-rich repeat kinase 2; RIP7; PARK8; Dardarin; ROCO 2; RIPK7; augmented in rheumatoid arthritis 17
UniProt ID:	Q5S007
Protein Molecular Mass:	286,103 Da (2527 AA; Q5S007-1)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human LRRK2
Antibody Immunogen Sequence:	GIK(pT)(pS)EGT(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues G2028 to T2035. S2032 phosphorylation stimulates enzymatic activity. These are minor <i>in vivo</i> phosphorylation sites in LRRK2 (≥2 and ≥2 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). LRRK2 is known to be phosphorylated <i>in vitro</i> at S2032 by LRRK2.
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 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.
Amount:	25 µg
Antibody Concentration:	0.95 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 Chimpanzee Dog Rat Mouse

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

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