

# AB-PK905

## LRRK2-pS935 Antibody

Phosphosite-specific rabbit polyclonal antibody for LRRK2 (PARK8). This phosphoserine-site antibody also cross-reacts with a phosphothreonine substitution in the phosphosite.

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### Target Protein

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

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human LRRK2
<b>Antibody Immunogen Sequence:</b>	HSN(pS)LGP(βA)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues H932 to P938. S935 phosphorylation induces interaction with 14-3-3-beta, 14-3-3-epsilon, 14-3-3-eta, 14-3-3-theta, and 14-3-3-zeta, and regulates intracellular location. This is a major <i>in vivo</i> phosphorylation site in LRRK2 (≥19 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). LRRK2 is known to be phosphorylated at this site <i>in vitro</i> by PKACa (PRKACA).
<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 multipеп 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.
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	0.5 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   Chimpanzee   Dog   Rat   Mouse

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