



Sheep antibody to LRRK2 (946-962): whole serum

Catalogue No.:	S-070-100
Description:	LRRK2 is a member of the leucine-rich repeat kinase family. Its role is yet unknown but it may play a role in the phosphorylation of proteins central to Parkinson diseases. LRRK2 contains an ankyrin repeat region, a leucine-rich repeat (LRR) domain, a kinase domain, a DFG-like motif, a RAS domain, a GTPase domain, a MLK-like domain and a WD40 domain. LRRK2 is present in the cytoplasm but also associates with the mitochondrial outer membrane. Defects in LRRK2 are the cause of Parkinson disease 8 (PARK8). Parkinson disease is characterised by bradykinesia, resting tremor, muscular rigidity and postural instability, as well as by a clinically significant response to treatment with levodopa. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated proteins), in surviving neurons in various areas of the brain. PARK8 is an autosomal-dominant late-onset parkinsonism, characterized by onset from 50 to 65 years, with slow progression and relatively benign course.
Related products:	Leucine-Rich Repeat Kinase 2 inhibitor LRRK2-IN-1
Batch No.:	See product label
Unit size:	100 uL
Antigen:	A synthetic peptide (LKRKRKILSSDDSLRSS; aa 946-962) as part of human LRRK2 protein conjugated to the Blue Carrier Protein has been used as the immunogen.
Other Names:	Leucine-rich repeat serine/threonine-protein kinase 2; Dardarin; LRRK2; PARK8
Accession:	LRRK2_HUMAN
Produced in:	Sheep
Purity:	Whole serum
Applications:	IHC. A dilution range of 1:500-1:10000 is recommended. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Specificity for LRRK2 has been confirmed by IHC.
Cross-reactivity:	This antiserum has been successfully tested in human. Other species have not yet been tested.
Form:	Lyophilised
Reconstitution:	Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.
Storage:	After reconstitution keep aliquots at -20C for a higher stability, and at 2-8C with an appropriate antibacterial agent.
Expiry Date:	12 months after purchase
References:	1. Zimprich A, et al. Neuron 44:601-607(2004). 2. Ota T, et al. Nat. Genet. 36:40-45(2004).

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