

Product Name: LRRK2 (16M6) Rabbit Monoclonal Antibody
Catalog #: AMRe13445

Summary

Production Name	LRRK2 (16M6) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	LRRK2
Alternative Names	Leucine-rich repeat serine/threonine-protein kinase 2; Dardarin; PARK8; ROCO2; RIPK7; LRRK2
Gene ID	120892.0
SwissProt ID	Q5S007.

Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	286kDa

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Background

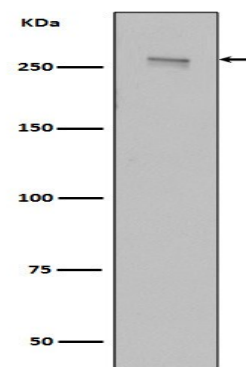
LRRK2 positively regulates autophagy through a calcium-dependent activation of the CaMKK/AMPK signaling pathway. The process involves activation of nicotinic acid adenine dinucleotide phosphate (NAADP) receptors, increase in lysosomal pH, and calcium release from lysosomes. Together with RAB29, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the Golgi apparatus in a retromer-dependent manner. Regulates neuronal process morphology in the intact central nervous system (CNS). Plays a role in synaptic vesicle trafficking. Phosphorylates PRDX3. Has GTPase activity. May play a role in the phosphorylation of proteins central to Parkinson disease. Serine/threonine-protein kinase which phosphorylates a broad range of proteins involved in multiple processes such as neuronal plasticity, autophagy, and vesicle trafficking (PubMed:[20949042](http://www.uniprot.org/citations/20949042), PubMed:[22012985](http://www.uniprot.org/citations/22012985), PubMed:[26824392](http://www.uniprot.org/citations/26824392), PubMed:[29125462](http://www.uniprot.org/citations/29125462), PubMed:[28720718](http://www.uniprot.org/citations/28720718), PubMed:[29127255](http://www.uniprot.org/citations/29127255), PubMed:[30398148](http://www.uniprot.org/citations/30398148), PubMed:[29212815](http://www.uniprot.org/citations/29212815), PubMed:[30635421](http://www.uniprot.org/citations/30635421), PubMed:[21850687](http://www.uniprot.org/citations/21850687), PubMed:[23395371](http://www.uniprot.org/citations/23395371), PubMed:[17114044](http://www.uniprot.org/citations/17114044), PubMed:[24687852](http://www.uniprot.org/citations/24687852), PubMed:[26014385](http://www.uniprot.org/citations/26014385), PubMed:[25201882](http://www.uniprot.org/citations/25201882)). Is a key regulator of RAB GTPases by regulating the GTP/GDP exchange and interaction partners of RABs through phosphorylation (PubMed:[26824392](http://www.uniprot.org/citations/26824392), PubMed:[28720718](http://www.uniprot.org/citations/28720718), PubMed:[29127255](http://www.uniprot.org/citations/29127255), PubMed:[30398148](http://www.uniprot.org/citations/30398148), PubMed:[29212815](http://www.uniprot.org/citations/29212815), PubMed:[29125462](http://www.uniprot.org/citations/29125462), PubMed:[30635421](http://www.uniprot.org/citations/30635421)). Phosphorylates RAB3A, RAB3B, RAB3C, RAB3D, RAB5A, RAB5B, RAB5C, RAB8A, RAB8B, RAB10, RAB12, RAB35, and RAB43 (PubMed:[26824392](http://www.uniprot.org/citations/26824392), PubMed:[26824392](http://www.uniprot.org/citations/26824392), PubMed:[26824392](http://www.uniprot.org/citations/26824392)).

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<http://www.uniprot.org/citations/28720718> target="_blank">28720718, PubMed:29212815).

Research Area

Image Data



Western blot analysis of LRRK2 in HEK293 cell lysate transfected with 3*Flag wild type, full length LRRK2.

Note

For research use only.