

产品名称: LRRK2 (6P9) Rabbit Monoclonal Antibody
产品货号: AMRe13446



产品概述 (Summary)

产品名称 (Production Name)	LRRK2 (6P9) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,IP
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (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.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

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

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:2000,IHC 1:50-1:200,ICC/IF 1:100-1:200,IP 1:20-1:50
蛋白分子量 (Molecular Weight)	286kDa

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研究背景 (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. 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, PubMed:22012985, PubMed:26824392, PubMed:29125462, PubMed:28720718, PubMed:29127255, PubMed:30398148, PubMed:29212815, PubMed:30635421, PubMed:21850687, PubMed:23395371, PubMed:17114044, PubMed:24687852, PubMed:26014385, PubMed:25201882). Is a key regulator of RAB GTPases by regulating the GTP/GDP exchange and interaction partners of RABs through phosphorylation (PubMed:26824392, PubMed:28720718, PubMed:29127255, PubMed:30398148, PubMed:29212815, PubMed:29125462, PubMed:30635421). Phosphorylates RAB3A, RAB3B,

RAB3C, RAB3D, RAB5A, RAB5B, RAB5C, RAB8A, RAB8B, RAB10, RAB12, RAB35, and RAB43 (PubMed:26824392, PubMed:28720718, PubMed:29127255, PubMed:30398148, PubMed:29212815, PubMed:<a

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[29125462](http://www.uniprot.org/citations/29125462) PubMed: [30635421](http://www.uniprot.org/citations/30635421) PubMed: [23395371](http://www.uniprot.org/citations/23395371) PubMed: [26824392](http://www.uniprot.org/citations/26824392) PubMed: [26824392](http://www.uniprot.org/citations/26824392) PubMed: [26824392](http://www.uniprot.org/citations/26824392) PubMed: [29125462](http://www.uniprot.org/citations/29125462) PubMed: [30398148](http://www.uniprot.org/citations/30398148) 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: [25201882](http://www.uniprot.org/citations/25201882) PubMed: [22012985](http://www.uniprot.org/citations/22012985) PubMed: [22012985](http://www.uniprot.org/citations/22012985) PubMed: [21850687](http://www.uniprot.org/citations/21850687) PubMed: [28720718](http://www.uniprot.org/citations/28720718) PubMed: [26014385](http://www.uniprot.org/citations/26014385) PubMed: [18230735](http://www.uniprot.org/citations/18230735) 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: [29212815](http://www.uniprot.org/citations/29212815) PubMed:

Regulates the RAB3IP-catalyzed GDP/GTP exchange for RAB8A through the phosphorylation of 'Thr-72' on RAB8A (PubMed: [26824392](http://www.uniprot.org/citations/26824392)). Inhibits the interaction between RAB8A and GDI1 and/or GDI2 by phosphorylating 'Thr- 72' on RAB8A (PubMed: [26824392](http://www.uniprot.org/citations/26824392)). Regulates primary ciliogenesis through phosphorylation of RAB8A and RAB10, which promotes SHH signaling in the brain (PubMed: [29125462](http://www.uniprot.org/citations/29125462)). 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 (PubMed: [23395371](http://www.uniprot.org/citations/23395371)). Regulates neuronal process morphology in the intact central nervous system (CNS) (PubMed: [17114044](http://www.uniprot.org/citations/17114044)). Plays a role in synaptic vesicle trafficking (PubMed: [24687852](http://www.uniprot.org/citations/24687852)). Plays an important role in recruiting SEC16A to endoplasmic reticulum exit sites (ERES) and in regulating ER to Golgi vesicle-mediated transport and ERES organization (PubMed: [25201882](http://www.uniprot.org/citations/25201882)). Positively regulates autophagy through a calcium-dependent activation of the CaMKK/AMPK signaling pathway (PubMed: [22012985](http://www.uniprot.org/citations/22012985)). The process involves activation of nicotinic acid adenine dinucleotide phosphate (NAADP) receptors, increase in lysosomal pH, and calcium release from lysosomes (PubMed: [22012985](http://www.uniprot.org/citations/22012985)). Phosphorylates PRDX3 (PubMed: [21850687](http://www.uniprot.org/citations/21850687)). By phosphorylating APP on 'Thr-743', which promotes the production and the nuclear translocation of the APP intracellular domain (AICD), regulates dopaminergic neuron apoptosis (PubMed: [28720718](http://www.uniprot.org/citations/28720718)). Independent of its kinase activity, inhibits the proteosomal degradation of MAPT, thus promoting MAPT oligomerization and secretion (PubMed: [26014385](http://www.uniprot.org/citations/26014385)). In addition, has GTPase activity via its Roc domain which regulates LRRK2 kinase activity (PubMed: [18230735](http://www.uniprot.org/citations/18230735)), 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: [29212815](http://www.uniprot.org/citations/29212815)).

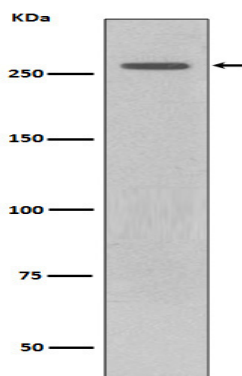
研究领域 (Research Area)

Autophagy, MAPK signaling pathway

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图片 (Image Data)



Western blot analysis of LRRK2 expression in GFP-LRRK2 lysate.

注意事项 (Note)

For research use only .