

Mouse anti-Human, mouse PARK8 (LRRK2) Monoclonal Antibody | anti-LRRK2 antibody

PARK8 (LRRK2) Antibody

CATALOG # AAA283416	HOST Mouse	REACTIVITY Human, mouse	APPLICATIONS ELISA, Western Blot
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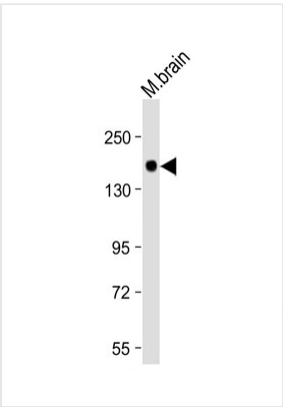
PRODUCT SYNONYMS

PARK8 (LRRK2); Monoclonal Antibody; PARK8 (LRRK2) Antibody; Leucine-rich repeat serine/threonine-protein kinase 2; Dardarin; LRRK2; PARK8; anti-LRRK2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Specificity	This PARK8 (LRRK2) antibody was raised in mice using purified His-tagged recombinant protein comprised of the C-terminal 261 residues of LRRK2.
Purity/Purification	Purified Mouse Monoclonal Antibody (Mab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Length	2527
Applicable Applications for anti-LRRK2 antibody	ELISA, WB (Western Blot)
Function	Serine/threonine-protein kinase which phosphorylates a broad range of proteins involved in multiple processes such as neuronal plasticity, autophagy, and vesicle trafficking
Cellular Location	Cytoplasmic vesicle. Perikaryon. Golgi apparatus membrane; Peripheral membrane protein. Cell projection, axon. Cell projection, dendrite. Endoplasmic reticulum membrane; Peripheral membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Endosome {ECO:0000250 UniProtKB:Q5S006}. Lysosome Mitochondrion outer membrane; Peripheral membrane protein Note=Colocalized with RAB29 along tubular structures emerging from Golgi apparatus (PubMed:23395371). Localizes to endoplasmic reticulum exit sites (ERES), also known as transitional endoplasmic reticulum (tER) (PubMed:25201882).
Tissue Location	Expressed in pyramidal neurons in all cortical laminae of the visual cortex, in neurons of the substantia nigra pars compacta and caudate putamen (at protein level). Expressed in neutrophils (at protein level) (PubMed:29127255). Expressed in the brain. Expressed throughout the adult brain, but at a lower level than in heart and liver. Also expressed in placenta, lung, skeletal muscle, kidney and pancreas. In the brain, expressed in the cerebellum, cerebral cortex, medulla, spinal cord occipital pole, frontal lobe, temporal lobe and putamen. Expression is particularly high in brain dopaminergic areas.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
Anti-PARK8 (LRRK2) Antibody at 1:1000 dilution + Mouse brain lysate Lysates/proteins at 20ug per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 286 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-LRRK2 antibody	This gene is a member of the leucine-rich repeat kinase family and encodes a protein with an ankryin 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. The protein is present largely in the cytoplasm but also associates with the mitochondrial outer membrane. Mutations in this gene have been associated with Parkinson disease-8.
Product Categories/Family for anti-LRRK2 antibody	Neuroscience
References	Olfactory heterogeneity in LRRK2 related Parkinsonism. Silveira-Moriyama L, et al. Mov Disord, 2010 Sep 3. PMID 20818658. LRRK2 G2019S mutations are associated with an increased cancer risk in Parkinson disease. Saunders-Pullman R, et al. Mov Disord, 2010 Sep 3. PMID 20818610. Low frequency of common LRRK2 mutations in Mexican patients with Parkinson's disease. Yescas P, et al. Neurosci Lett, 2010 Aug 18. PMID 20727385. Absence of Commonly Reported Leucine-Rich Repeat Kinase 2 Mutations in Eastern Indian Parkinson's Disease Patients. Sanyal J, et al. Genet Test Mol Biomarkers, 2010 Aug 19. PMID 20722494. Penetrance in Parkinson's disease related to the LRRK2 R1441G mutation in the Basque country (Spain). Ruiz-Martínez J, et al. Mov Disord, 2010 Aug 18. PMID 20721916.

NCBI AND UNIPROT INFORMATION

NCBI GI #	171846278
NCBI GeneID	120892
NCBI Accession #	NP_940980.3
NCBI GenBank Nucleotide #	NM_198578.3
UniProt Accession #	Q5S007; Q6ZS50; Q8NCX9; A6NJU2
NCBI Official Full Name	leucine-rich repeat serine/threonine-protein kinase 2
NCBI Official Synonym Full Names	leucine-rich repeat kinase 2
NCBI Official Symbol	LRRK2
NCBI Official Synonym Symbols	PARK8; RIPK7; ROCO2; AURA17; DARDARIN
NCBI Protein Information	leucine-rich repeat serine/threonine-protein kinase 2
UniProt Protein Name	Leucine-rich repeat serine/threonine-protein kinase 2

UniProt Gene Name	LRRK2
UniProt Synonym Gene Names	PARK8
UniProt Entry Name	LRRK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/park8-lrrk2-antibody-western-blot-elisa/283416>