PARK8 (LRRK2) Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM7099a

**Specification**

<table>
<thead>
<tr>
<th>Application</th>
<th>WB,E</th>
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<tbody>
<tr>
<td>Primary Accession</td>
<td>Q5S007</td>
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<tr>
<td>Reactivity</td>
<td>Human, Mouse</td>
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<td>Host</td>
<td>Mouse</td>
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<td>Clonality</td>
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<tr>
<td>Isotype</td>
<td>Mouse IgG1</td>
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<tr>
<td>Clone Names</td>
<td>133AT1218</td>
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<tr>
<td>Calculated MW</td>
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</tbody>
</table>

**Gene ID** 120892

**Other Names**
Leucine-rich repeat serine/threonine-protein kinase 2, Dardarin, LRRK2, PARK8

**Target/Specificity**
This PARK8 (LRRK2) antibody was raised in mice using purified His-tagged recombinant protein comprised of the C-terminal 261 residues of LRRK2.

**Dilution**
WB----1:100–500

**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.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
PARK8 (LRRK2) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**References**

Function
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.

Cellular Location

Tissue Location
Expressed in the brain. 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 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 dopaminoceptive areas

PARK8 (LRRK2) Antibody - Protocols
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
Curcumin exposure induces expression of the Parkinson's disease-associated leucine-rich repeat kinase 2 (LRRK2) in rat mesencephalic cells.

Dynamic and redundant regulation of LRRK2 and LRRK1 expression.