

# LRRK2 Conjugated Antibody

Catalog No: #C56031

Package Size: #C56031-AF350 100ul #C56031-AF405 100ul #C56031-AF488 100ul #C56031-AF555 100ul #C56031-AF594 100ul #C56031-AF647 100ul #C56031-AF680 100ul #C56031-AF750 100ul #C56031-Biotin 100ul #C56031-Conjugated 50ul

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## Description

Product Name	LRRK2 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG
Purification	Affinity-chromatography
Applications	WB, IF
Species Reactivity	Human Mouse Rat
Specificity	LRRK2 Antibody detects endogenous levels of total LRRK2
Immunogen Description	A synthesized peptide derived from human LRRK2
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	Leucine-rich repeat serine/threonine-protein kinase 2; Dardarin; PARK8; ROCO2; RIPK7; LRRK2
Accession No.	Uniprot:Q5S007
Calculated MW	286kDa
Storage	Store at 4°C in dark for 6 months

## Application Details

WB: 1:50-1:200

IF:1:50-1:200

## Product Description

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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.