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Product Datasheet

Anti-LRRK2/Dardarin, N3 (Non-Mouse-Reactive) Antibody FL594 Conjugate

NeuroMab KO Validated

Overview

Catalog #	75-266-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG2a
Clone Number	N231B/34
Size	200 µL
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Human, Mouse, and Rat
Immunogen	Fusion protein amino acids 841-960 of human LRRK2 (accession number Q5S007) produced recombinantly in E. Coli
Molecular Weight	>200 kDa
Cite this Antibody	Antibodies Inc Cat# 75-266-FL594, RRID: AB_2939958

Details

Target Description

LRRK2 (also known as PARK8) encodes a protein with 5 putative functional domains: an N-terminal leucine-rich repeat (LRR) domain, a Roc (Ras of complex protein) domain that shares sequence homology to the Ras-related GTPase superfamily, a COR (C-terminal of Roc) domain, a mitogen-activated protein kinase kinase kinase (MAPKKK) domain, and a C-terminal WD40 repeat domain. Mutation in this gene is one of the most common causes of inherited Parkinson disease (Gandhi et al., 2008). LRRK2 was originally identified as a putative disease-causing transcript (DKFZp434H2111) within a 2.6-Mb region encompassing a locus for Parkinson disease-8 (PARK8). Northern blot analysis detected a 9-kb mRNA transcript in all tissues tested, including brain. The authors named the protein product dardarin, derived from the Basque word dardara, meaning tremor. LRRK2/dardarin is also known to positively regulate autophagy through a calcium-dependent activation of the CaMKK/AMPK signaling pathway and 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. LRRK2/PARK8 is also known to regulate neuronal process morphology in the intact central nervous system (CNS) and play a role in synaptic vesicle trafficking.

Specificity	No cross-reactivity reported
Purification Method	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.
Quality Control Tests	Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.
Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap.

Our Guarantee

As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience our 50+ year passion for science.