

Product Datasheet

Anti-LRRK2/Dardarin, C-Terminus Antibody FL594 Conjugate



Overview

Catalog # 75-253-FL594

Conjugate FL594 Ex: 594 nm, Em: 615 nm

 $\begin{tabular}{lll} Isotype & IgG2a \\ Clone Number & N241A/34 \\ Size & 200 \ \mu L \\ Concentration & 0.5 \ mg/mL \\ \end{tabular}$

Host Species Mouse Monoclonal

Format Purified by Protein A chromatography

Buffer PBS with 0.09% azide

Applications ICC, IHC

Species Reactivity Drosophila, Human, Mouse, Non-Human Primate, and Rat

Immunogen Fusion protein amino acids 970-2527 (C-terminus) of human LRRK2 (accession number Q5SS00)

produced recombinantly in E. Coli.

Molecular Weight >200 kDa

Cite this Antibody Antibodies Inc Cat# 75-253-FL594, RRID: AB 2939922

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 mitogenactivated 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 \leq -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.

Note: For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, viewable on our website.