

Datasheet for 200-301-W59**LRRK2/Dardarin Antibody****Overview**

Description:	Anti-LRRK2/Dardarin (MOUSE) Monoclonal Antibody - 200-301-W59
Item No.:	200-301-W59
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Rat
Host Species:	Mouse

Product Details

Background:	LRRK2 is a large protein with multiple domains including several ankyrin, leucine-rich, and WD40 repeats, a Ras-like small GTPase family domain named Roc, and a kinase domain that is closely related to the RIP kinase domain. LRRK2 gene is expressed in brain as well as in other tissues such as lung, liver and heart. LRRK2 might be central to the pathogenesis of several major neurodegenerative diseases associated with parkinsonism. Several dominantly inherited missense mutations in the gene encoding LRRK2 have been identified in several families that exhibit a broad spectrum of neuropathological features. Anti-LRRK2 is ideal for researchers interested in Neuroscience, specifically parkinsonism, as well as pathways related to the Electron Transport Chain and Wnt Signaling.
Synonyms:	Leucine-rich repeat kinase 2, RIP7, PARK8, Dardarin, ROCO 2, RIPK7, Leucine-rich repeat serine/threonine-protein kinase 2, augmented in rheumatoid arthritis 17
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S231B-34
Format:	IgG2a

Target Details

Gene Name:	LRRK2
Reactivity:	Human, Rat
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-LRRK2/Dardarin Antibody was produced by repeated immunization of mice with a fusion protein containing amino acids 841-960 of human LRRK2.
Purity/Specificity:	Anti-LRRK2/Dardarin Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests 81% similarity to mouse, 80% similarity to rat, and <30% identical to LRRK1.
Relevant Links:	• UniProtKB - Q5S007 • GeneID - 120892

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-LRRK2/Dardarin Antibody is tested for Western Blots, Immunocytochemistry, and Immunohistochemistry. Expect a band approximately >200 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:1,000
IHC:	User Optimized
WB:	1:100

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0mg/ml by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

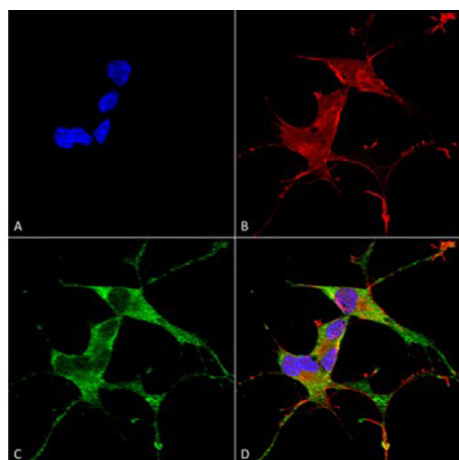
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence of Mouse Anti-LRRK2/Dardarin Monoclonal Antibody.

Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human.

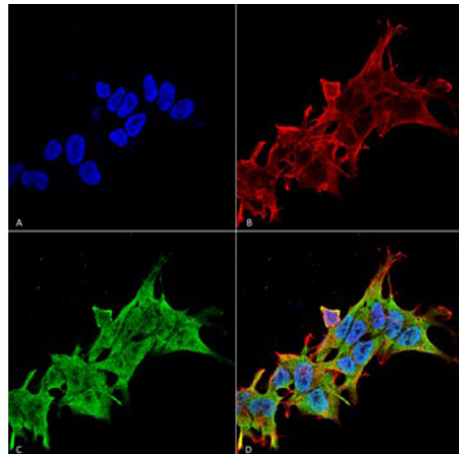
Fixation: 4% PFA for 15 min.

Primary Antibody: Mouse Anti-LRRK2/Dardarin Monoclonal Antibody at 1:100 for overnight at 4°C.

Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT.

Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT.

(A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) LRRK2/Dardarin Antibody (D) Composite.



Immunofluorescence of Mouse Anti-LRRK2/Dardarin.

Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human.

Fixation: 4% Formaldehyde for 15 min at RT.

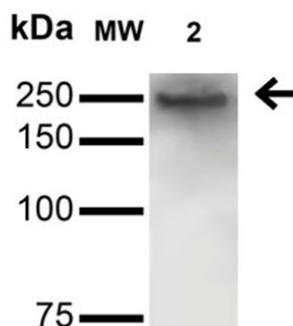
Primary Antibody: Mouse Anti-LRRK2/Dardarin Monoclonal Antibody at 1:100 for 60 min at RT.

Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT.

Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT.

Localization: Cytoplasm.

Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) LRRK2/Dardarin Antibody. (D) Composite.

**Western Blot**

Western Blot analysis of Mouse Anti-LRRK2/Dardarin Monoclonal Antibody.

Load: 15 µg. Lane 1: Molecular Weight Ladder. Lane 2: Rat Brain Membrane.

Block: 2% BSA and 2% Skim Milk in 1X TBST.

Primary Antibody: Mouse Anti-LRRK2/Dardarin Monoclonal Antibody at 1:200 for 16 hours at 4°C.

Secondary Antibody: Goat Anti-Mouse IgG HRP at 1:1000 for 1 hour RT.

Color Development: ECL solution for 6 min in RT.

Predicted/Observed Size: >200 kDa.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.