BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-LRRK2 Antibody (C-term)

Catalog Number: M00221-3

About 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). Phosphorylates PRDX3. May also have GTPase activity. May play a role in the phosphorylation of proteins central to Parkinson disease.

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Overview

Product Name	Anti-LRRK2 Antibody (C-term)
Reactive Species	Human
Description	Boster Bio Anti-LRRK2 Antibody (C-term) (Catalog # M00221-3). Tested in WB, IHC, Flow Cytometry application(s). This antibody reacts with Human.
Application	Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q5S007

Technical Details

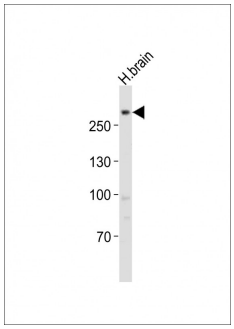
Immunogen	This LRRK2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 2171-2207 amino acids from the C-terminal region of human LRRK2.
Predicted Reactive Species	Bovine, Mouse
Isotype	Rabbit IgG

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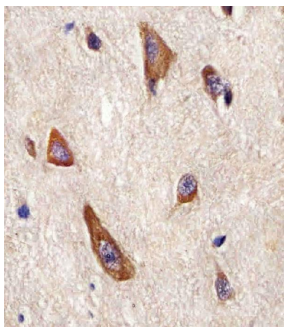
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	WB: 1:1000 IHC: 1:25 FC: 1:25 Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

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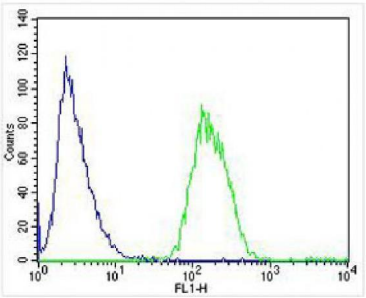
Anti-LRRK2 Antibody (C-term) (M00221-3) Images



Anti-LRRK2 Antibody (C-term) at 1:1000 dilution + human brain lysatesLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 286 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



M00221-3 staining LRRK2 in Human brain tissue sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing SH-SY5Y cells stained with M00221-3 (green line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1g/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

Anti-LRRK2 Antibody (C-term)

For Research Use Only. Not for use in diagnostic procedures.