

Leucine-Rich Repeat Kinase 2 (LRRK2) Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 56582 (clone S231B-34)

Format: 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4, 0.1% sodium azide, 50% glycerol.

BACKGROUND

Leucine-rich repeat kinase 2 (LRRK2), also known as dardarin, is an enzyme that in humans is encoded by the *PARK8* gene. The protein is present largely in the cytoplasm but also associates with the mitochondrial outer membrane. Mutations in this gene have been associated with Parkinson's disease type 8 and Crohn's disease which suggests that these two diseases share a common pathway. Expression of mutant LRRK2 induced apoptotic cell death in neuroblastoma cells and in mouse cortical neurons.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 841-960 of human LRRK2. This sequence is 81% identical in mouse, 80% identical in rat, and <30% identical in LRRK1.

Accession nos: NP_940980, Q5S007

Gene ID: 120892

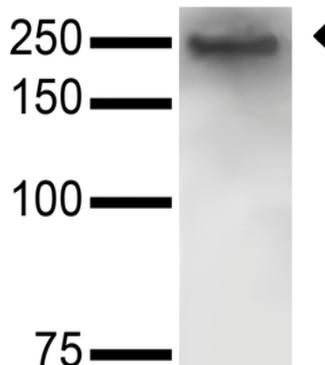
Host Species: Mouse

Antibody Class: IgG2a

Specificity: This antibody recognizes human and rat LRRK2.

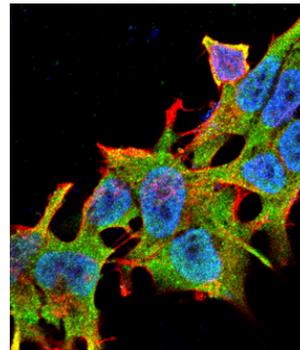
APPLICATIONS

Immunoblotting: use at 1-5ug/ml. A band of >200kDa is detected.



Detection of LRRK2 in rat brain lysate with #56582 at 5ug/ml.

Immunofluorescence: use at 10ug/ml.



Detection of LRRK2 in neuroblastoma cell line SK-N-BE with #56582 at 10ug/ml: DAPI (blue) nuclear stain, Texas Red F actin stain, ATTO 488 (green) LRRK2 stain.

These are recommended concentrations. Endusers should determine optimal concentrations for their application.

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DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.