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Datasheet for 200-302-W64

PINK1 Antibody Fluorescein

Overview

Description:	Anti-PINK1 (MOUSE) Monoclonal Antibody Fluorescein Conjugated - 200-302-W64
Item No.:	200-302-W64
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	PINK1 (PTEN induced putative kinase 1) is a mitochondrial serine/threonine kinase which maintains mitochondrial function/integrity, provides protection against mitochondrial dysfunction during cellular stress, potentially by phosphorylating mitochondrial proteins, and is involved in the clearance of damaged mitochondria via selective autophagy (mitophagy). PINK1 is synthesized as a 63 kD protein which undergoes proteolyt processing to generate at least two cleaved forms (55 kD and 42 kD). PINK1 and its substrates have been found in the cytosol as well as in different sub-mitochondrial compartments, and according to the recent reports; PINK1 may be targeted to OMM (outer mitochondrial membrane) with its kinase domain facing the cytosol, providing a possible explanation for the observed physical interaction with the cytosolic E3 ubiquitin ligase Parkin. Defective PINK1 may cause alterations in processing, stability, localization and activity as well as binding to substrates/interaction-partners which ultimately leads to differential effects on mitochondrial function and morphology. Mutations in PINK1 are linked to autosomal recessive early onset Parkinson's disease, and are associated with loss of protective function, mitochondrial dysfunction, aggregation of alpha-synuclein, as well as proteasome dysfunction. Areas of interest and use for researchers include Neuroscience, mitochondrial function, and CDK-mediated phosphorylation pathways.
Synonyms:	Parkinson disease (autosomal recessive) 6, EC 2.7.11.1, PARK6, serine/threonine-protein kinase PINK1 mitochondrial, PTEN-induced putative kinase protein 1, protein kinase BRPK, BRPK, FLJ27236, PTEN induced putative kinase 1, Phosphatase and Tensin Homolog
Host Species:	Mouse
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal

Clone ID:	S4-15
Format:	IgG1

Target Details

Gene Name:	PINK1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-PINK1 Antibody was produced by repeated immunization of mice with a fusion protein containing amino acids 112-496 of human PINK1.
Purity/Specificity:	Anti-PINK1 Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests that it is 82% identical to rat, 81% identical to mouse and >30% identical to DMPK.
Relevant Links:	• NCBI - NP_115785.1 • UniProtKB - Q9BXM7.1 • GeneID - 65018

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-PINK1 FITC Conjugated Antibody is tested for Western Blots, Immunohistochemistry and Immunocytochemistry. Expect a band approximately ~50 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:	1:10,000
IHC:	User Optimized
WB:	1:1000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/ml by UV absorbance at 280 nm

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Conjugated antibodies should be stored according to the product label. Product stored in 640.91mM DMSO, 136.36mM Ethanolamine, 9.09mM Sodium Bicarbonate in 90.9% PBS.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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