Medaysis

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Mouse Anti-PINK1 (PTEN Induced Kinase 1) [N4/15]: MC0059

Intended Use: For Research Use Only

Description: PINK1 (PTEN-induced putative kinase 1), a member of the serine/threonine protein kinase family, is a tumor suppressor. It is primarily located in mitochondria, and is ubiquitously expressed in testis, skeletal muscle, and heart tissue. It can also be detected at lower levels in pancreas, ovary, brain, placenta, kidney, liver, prostate and small intestine. PINK1 protects from mitochondrial dysfunction in cells by conferring different autophosphorylation activity to mitochondrial genes. Mitochondrial proteins are critical for the regulation of cellular energy and adaptation to stress. Particularly in brain cells, mitochondrial demand is extraordinarily high, in order to accommodate aerobic and anaerobic support of high energy processes. Mutations in the PINK1 gene (PARK6) are associated with early onset Parkinson's disease, a recessive neurodegenerative disorder characterized by resting tremor, muscular rigidity, bradykinesia and postural instability. Parkinson's disease generally involves the presence of intraneuronal accumulations of aggregated proteins (Lewy bodies) in brain neurons. Growing evidence supports the contribution of mitophagy impairment to several human pathologies, including PD and Alzheimer's diseases.

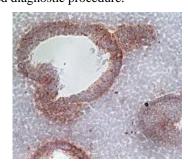
Specifications

Specifications			
Clone:	N4/15		
Source:	Mouse		
Isotype:	IgG1		
Reactivity:	Human, mouse, rat		
Immunogen:	Fusion protein aa 100-500 of human PINK1		
Localization:	Cytoplasm, mitochondrion, mitochondrion outer membrane		
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN3)		
Storage:	Store at 2°- 8°C		
Applications:	IHC		
Package:			
Description	Catalog No. Size		

PINK1 (PTEN Induced Kinase 1) [N4/15] Concentrated	MC0059	1 ml
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IHC Procedure*

merroccuare	
Positive Control Tissue:	Testis, skeletal muscle, heart, brain
Concentrated Dilution:	25-100
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual
* Result should be confirmed by an e	stablished diagnostic procedure.





References:

- 1. GRN, NOTCH3, FN1, and PINK1 expression in eutopic endometrium potential biomarkers in the detection of endometriosis a pilot study. Isabell Holzer 1, et al. J Assist Reprod Genet. Nov;37(11):2723-2732, 2020.
- 2. Interleukin-1β drives NEDD8 nuclear-to-cytoplasmic translocation, fostering parkin activation via NEDD8 binding to the P-ubiquitin activating site. Paul A., et al. Journal of Neuroinflammation. Dec 27, 2019.

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