ARG55419
anti-PINK1 antibody [38CT20.8.5]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes PINK1
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	38CT20.8.5
Isotype	IgG1
Target Name	PINK1
Species	Human
Immunogen	Recombinant Human PINK1 protein.
Conjugation	Un-conjugated
Alternate Names	PARK6; BRPK; PTEN-induced putative kinase protein 1; Serine/threonine-protein kinase PINK1, mitochondrial; EC 2.7.11.1

Application Instructions

Application table

Application	Dilution
ICC/IF	1:25
IHC-P	1:50 - 1:100
WB	1:100 - 1:500

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: A431

Properties

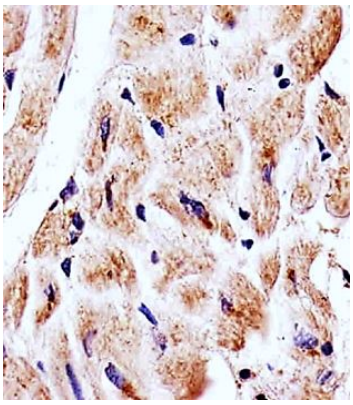
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

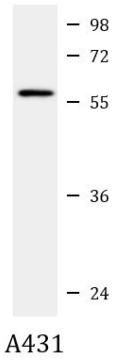
Database links	GeneID: 65018 Human Swiss-port # Q9BXM7 Human
Gene Symbol	PINK1
Gene Full Name	PTEN induced putative kinase 1
Background	This gene encodes a serine/threonine protein kinase that localizes to mitochondria. It is thought to protect cells from stress-induced mitochondrial dysfunction. Mutations in this gene cause one form of autosomal recessive early-onset Parkinson disease. [provided by RefSeq, Jul 2008]
Function	Protects against mitochondrial dysfunction during cellular stress by phosphorylating mitochondrial proteins. Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy) by mediating activation and translocation of PARK2. Targets PARK2 to dysfunctional depolarized mitochondria through the phosphorylation of MFN2. Activates PARK2 in 2 steps: (1) by mediating phosphorylation at 'Ser-65' of PARK2 and (2) mediating phosphorylation of ubiquitin, converting PARK2 to its fully-active form. [UniProt]
Highlight	Related products: PINK1 antibodies; Anti-Mouse IgG secondary antibodies; Related news: Astrocyte-to-neuron conversion for Parkinson's disease treatment
Research Area	Cell Biology and Cellular Response antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	63 kDa
PTM	Autophosphorylation at Ser-228 and Ser-402 is essential for Parkin/PRKN recruitment to depolarized mitochondria. Two shorter forms of 55 kDa and 48 kDa seem to be produced by proteolytic cleavage and localize mainly in cytosol.
Cellular Localization	Mitochondrion outer membrane; Single-pass membrane protein. Cytoplasm, cytosol

Images



ARG55419 anti-PINK1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart section stained with ARG55419 anti-PINK1 antibody at 1:25 dilution.



ARG55419 anti-PINK1 antibody WB image

Western blot: 20 µg of A431 cell lysate stained with ARG55419 anti-PINK1 antibody at 1:1000 dilution.