SunLong Biotech Co.,LTD
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Rabbit Anti-PINK1 antibody

SL22173R

Product Name	PINK1
Chinese Name	丝氨酸/苏氨酸蛋白激酶 PINK1 抗体
Alias	PINK1_HUMAN; PTEN Induced Putative Kinase 1; PTEN-Induced Putative Kinase Protein 1; BRPK; Serine/Threonine-Protein Kinase PINK1, Mitochondrial; Parkinson Disease (Autosomal Recessive) 6; Protein Kinase BRPK; EC 2.7.11.1; PARK6;
Research Area	Tumour Cardiovascular Neurobiology Signal transduction Kinases and Phosphatases Mitochondrion
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human Mouse Rat
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	64kDa
Cellular localization	cytoplasmic Mitochondrion
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PINK1: 441-540/581
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Human,Mouse,Rat1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Product Detail

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, potentially by phosphorylating mitochondrial proteins. Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy). It is necessary for PARK2 recruitement to dysfunctional mitochondria to initiate their degradation.

Subunit:
Interacts with PRKN. Interacts with FBXO7. Forms a complex with PRKN and PARK7 (PubMed:19229105).

Subcellular Location:
Mitochondrion outer membrane. Cytoplasm > cytosol.

Tissue Specificity:
Highly expressed in heart, skeletal muscle and testis, and at lower levels in brain, placenta, liver, kidney, pancreas, prostate, ovary and small intestine. Present in the embryonic testis from an early stage of development.

Post-translational modifications:
Autophosphorylated.

DISEASE:
Defects in PINK1 are the cause of Parkinson disease type 6 (PARK6) [MIM:605909]. A neurodegenerative disorder characterized by parkinsonian signs such as rigidity, resting tremor and bradykinesia. A subset of patients manifest additional symptoms including hyperreflexia, autonomic instability, dementia and psychiatric disturbances. Symptoms show diurnal fluctuation and can improve after sleep.

Similarity:
Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Contains 1 protein kinase domain.

SWISS:
Q9BXM7

Gene ID:
65018

Database links:

Entrez Gene: 65018 Human

Entrez Gene: 68943 Mouse

Entrez Gene: 298575 Rat

NCBI: 14165272 Human

Omim: 608309 Human

SwissProt: Q9BXM7 Human

SwissProt: Q99MQ3 Mouse

Unigene: 389171 Human

Unigene: 18539 Mouse

Unigene: 219286 Rat

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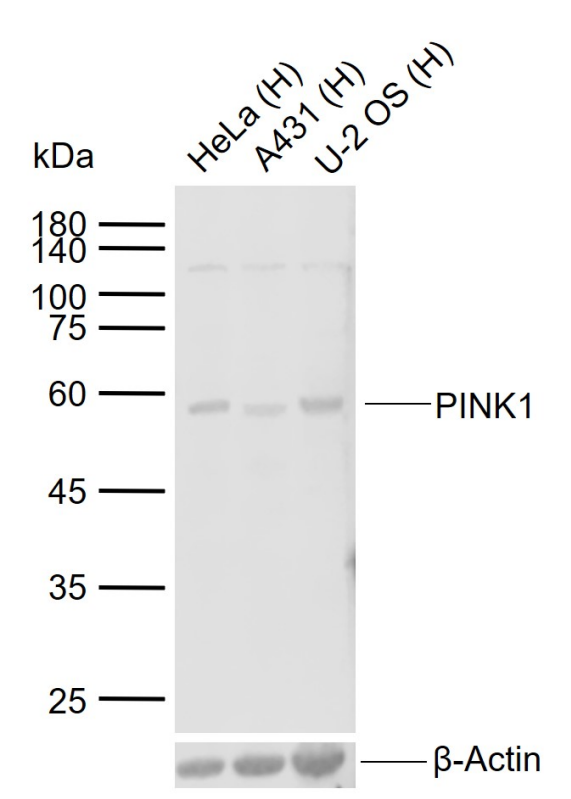
Product Picture



Sample:

Lane 1: Human HeLa cell lysates

Lane 2: Human A431 cell lysates

Lane 3: Human U-2OS cell lysates

Primary: Anti- PINK1 (SL22173R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 64 kDa

Observed band size: 60 kDa

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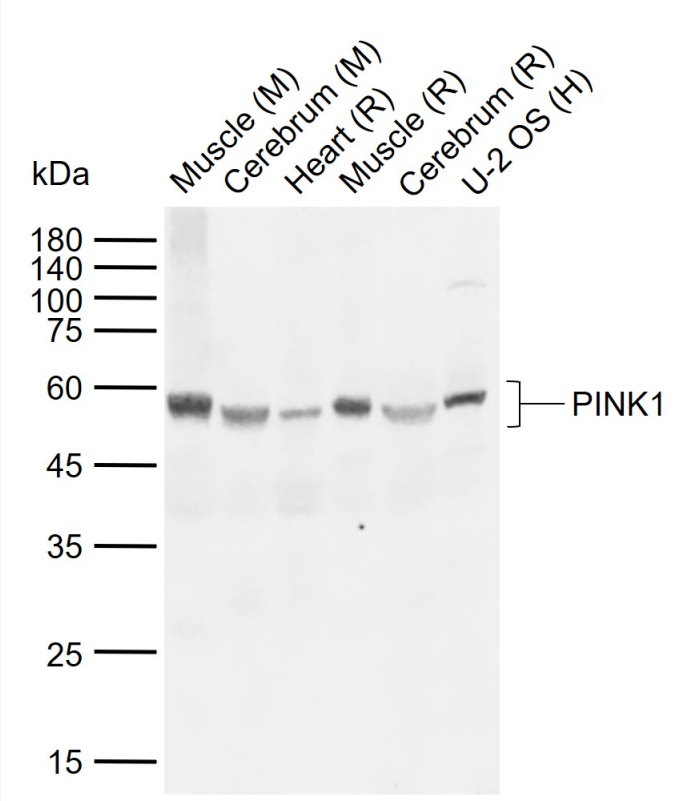

Sample:

Lane 1: Mouse Muscle tissue lysates

Lane 2: Mouse Cerebrum tissue lysates

Lane 3: Rat Heart tissue lysates

Lane 4: Rat Muscle tissue lysates

Lane 5: Rat Cerebrum tissue lysates

Lane 6: Human U-2 OS cell lysates

Primary: Anti-PINK1 (SL22173R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 64 kDa

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Observed band size: 58 kDa