# PINK1 Rabbit Polyclonal Antibody

| 产品货号 | 产品名称 | 储存条件 |
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| IM30002 | PINK1 Rabbit Polyclonal Antibody | -20℃ |

## 产品信息

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| 类别 | 抗原抗体 |
| 基因名称 | PARK1 |
| 蛋白名称 | Serine/threonine-protein kinase PINK1, mitochondrial (EC 2.7.11.1) (BRPK) (PTEN-induced putative kinase protein 1) |
| 推荐应用 | WB,ELISA |
| 反应种属 | Human,Mouse,Rat |
| 浓度 | 1mg/ml |
| 存储缓冲液 | Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N |
| Human Gene ID | 65018 |
| 免疫原 | Synthesized peptide derived from part region of human protein |
| 特异性 | PINK1 Polyclonal Antibody detects endogenous levels of protein |
| 稀释度 | WB 1:500-2000, ELISA 1:5000-20000 |
| 预测分子量 | 63kDa |
| 宿主 | Rabbit |
| 同种型 | Rabbit,IgG |
| Clonality | Polyclonal |

## 背景介绍

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]

## 组织表达

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.

## 细胞定位

Mitochondrion outer membrane ; Single-pass membrane protein . Mitochondrion inner membrane ;Single-pass membrane protein . Cytoplasm, cytosol . Localizes mostly in mitochondrion and the two smaller proteolytic processed fragments localize mainly in cytosol (PubMed:19229105). When mitochondria lose mitochondrial membrane potential following damage, PINK1 import is arrested,which induces its accumulation in the outer mitochondrial membrane, where it acquires kinase activity (PubMed:18957282).

## 信号通路

Parkinson's disease.

## 功能

Catalytic activity:ATP+a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,disease:Defects in PINK1 are the cause of autosomal recessive early-onset Parkinson disease 6 (PARK6)[MIM:605909, 168600]. Parkinson disease (PD) is a complex, multifactorial disorder that typically manifests after the age of 50 years, although early-onset cases (before 50 years)are known. PDgenerally arises as a sporadic condition but is occasionally inherited as a simple mendelian trait.Although sporadic and familial PD are very similar, inherited forms of the disease usually begin at earlier ages and are associated with atypical clinical features. PD is characterized by bradykinesia,resting tremor, muscular rigidity and postural instability, as well as by a clinically significant response to treatment with levodopa. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of

aggregated proteins), in surviving neurons in various areas of the brain.,function:Protects against mitochondrial dysfunction during cellular stress, potentiallybyphosphorylatingmitochondrialproteins.,PTM:Autophosphorylated.,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family.,similarity:Contains 1 protein kinase domain.,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.

## 纯化

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

## 注意事项：

1. 本产品仅限于科研使用，不得用于医药、临床诊断或治疗、食品或化妆品等用途。
2. 请勿存放于普通住宅区。
3. 为了您的安全健康，请穿好实验服并佩戴一次性口罩和手套进行操作。
4. 实验结果受多种因素影响，相关处理仅限于产品本身，不涉及其他赔偿。



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