abcam

Product datasheet

Recombinant Human PINK1 protein (denatured) ab116177

1 Image

Description

Product name	Recombinant Human PINK1 protein (denatured)
Purity	> 90 % SDS-PAGE. ab116177 was purified using conventional chromatography.
Expression system	Escherichia coli
Accession	Q9BXM7
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MYLIGQSIGK GCSAAVYEAT MPTLPQNLEV TKSTGLLPGR GPGTSAPGEG QERAPGAPAF PLAIKMMWNI SAGSSSEAIL NTMSQELVPA SRVALAGEYG AVTYRKSKRG PKQLAPHPNI IRVLRAFTSS VPLLPGALVD YPDVLPSRLH PEGLGHGRTL FLVMKNYPCT LRQYLCVNTP SPRLAAMMLL QLLEGVDHLV QQGIAHRDLK SDNILVELDP DGCPWLVIAD FGCCLADESI GLQLPFSSWY VDRGGNGCLM APEVSTARPG PRAVIDYSKA DAWAVGAIAY EIFGLVNPFY GQGKAHLESR SYQEAQLPAL PESVPPDVRQ LVRALLQREA SKRPSARVAA NVL
Predicted molecular weight	38 kDa
Amino acids	156 to 507

Specifications

Our **Abpromise guarantee** covers the use of **ab116177** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00
Constituents: 6.01% Urea, 0.32% Tris HCl, 5% Glycerol (glycerin, glycerine)

General Info

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.

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.

Involvement in 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.

Sequence similarities

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

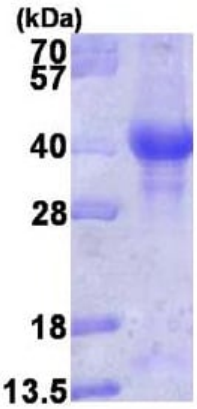
Post-translational modifications

Autophosphorylated.

Cellular localization

Mitochondrion outer membrane. Cytoplasm > cytosol.

Images



SDS-PAGE - Recombinant Human PINK1 protein (denatured) (ab116177)

ab116177 on a 15% SDS-PAGE (3ug)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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