PINK1 (38CT20.8.5): sc-517353

BACKGROUND
A member of the serine/threonine protein kinase family, PINK1 is a tumor suppressor. PINK1 is primarily located in the 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. During cellular stress PINK1 protects against mitochondrial dysfunction by inducing phosphorylation of mitochondrial proteins. PINK1 mutations may give rise to different autophosphorylation activity. 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.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: PINK1 (human) mapping to 1p36.12; Pink1 (mouse) mapping to 4 D3.

SOURCE
PINK1 (38CT20.8.5) is a mouse monoclonal antibody raised against a recombinant protein corresponding to PINK1 of human origin.

PRODUCT
Each vial contains 50 µg IgG, kappa light chain in 0.5 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

APPLICATIONS
PINK1 (38CT20.8.5) is recommended for detection of PINK1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for PINK1 siRNA (h): sc-44598, PINK1 siRNA (m): sc-44599, PINK1 shRNA Plasmid (h): sc-44598-SH, PINK1 shRNA Plasmid (m): sc-44599-SH, PINK1 shRNA (h) Lentiviral Particles: sc-44598-V and PINK1 shRNA (m) Lentiviral Particles: sc-44599-V.

Molecular Weight of PINK1: 66 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201 or Sol8 cell lysate: sc-2249.

STORAGE
Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA
![Western blot analysis of PINK1 expression in A-431 (A) and Sol8 (B) whole cell lysates.](image)

SELECT PRODUCT CITATIONS

RESEARCH USE
For research use only, not for use in diagnostic procedures.