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Product datasheet for TA336309

PINK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 2 ug/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	An N-terminal region synthetic peptide made to the human PINK1 protein sequence (between residues 1-50). [UniProt# Q9BXM7]
Formulation:	Tris-citrate/phosphate, pH 7, 0.1% Sodium azide. Store at 4C. Do not freeze.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	60 kDa
Gene Name:	PTEN induced putative kinase 1
Database Link:	NP_115785 Entrez Gene 68943 MouseEntrez Gene 298575 RatEntrez Gene 65018 Human Q9BXM7

View online »

Background: PINK1 (PTEN induced putative kinase 1) is a mitochondrial serine/threonine kinase which maintains mitochondrial function/integrity, provides protection against mitochondrial dysfunction during cellular stress, potentially by phosphorylating mitochondrial proteins, and is involved in the clearance of damaged mitochondria via selective autophagy (mitophagy). PINK1 is synthesized as a 63 kD protein which undergoes proteolyt processing to generate at least two cleaved forms (55 kD and 42 kD). PINK1 and its substrates have been found in the cytosol as well as in different sub-mitochondrial compartments, and according to the recent reports; PINK1 may be targeted to OMM (outer mitochondrial membrane) with its kinase domain facing the cytosol, providing a possible explanation for the observed physical interaction with the cytosolic E3 ubiquitin ligase Parkin. Defective PINK1 may cause alterations in processing, stability, localization and activity as well as binding to substrates/interaction-partners which ultimately leads to differential effects on mitochondrial function and morphology. Mutations in PINK1 are linked to autosomal recessive early onset Parkinson's disease, and are associated with loss of protective function, mitochondrial dysfunction, aggregation of alpha-synuclein, as well as proteasome dysfunction.

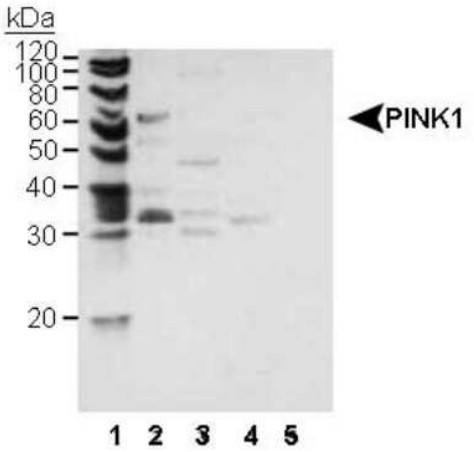
Synonyms: BRPK; PARK6

Note: This PINK1 antibody is useful for Western blot, where a band is seen ~60 kDa.

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Parkinson's disease

Product images:



Western Blot: PINK1 Antibody TA336309 - Detection of murine PINK1 using TA336309.

Lane 1: molecular weight marker.

Lane 2. MES cell Mitochondria (20 ug) with a band at the observed molecular weight of 63 kDa.

Lane 3. MES cytosol (20 ug).

Lane 4. MES nuclear (20 ug) as negative control.

Lane 5. Purified human cytochrome C (0.1 ug) as PINK1 negative control.