

#6946 Store at -20°C

PINK1 (D8G3) Rabbit mAb


Cell Signaling
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	60, 50	Rabbit IgG	#Q9BXM7	65018

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

PINK1 (D8G3) Rabbit mAb recognizes endogenous levels of total PINK1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro140 of human PINK1 protein.

Background

PTEN induced putative kinase 1, PINK1, is a mitochondrial serine/threonine kinase involved in the normal function and integrity of mitochondria, as well as in reduction of cytochrome c release from mitochondria (1-3). PINK1 phosphorylates Parkin and promotes its translocation to mitochondria (2). Research studies have shown that 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 α -synuclein, as well as proteasome dysfunction (1,3).

Background References

1. Liu, W. et al. (2009) *PLoS One* 4, e4597.
2. Kim, Y. et al. (2008) *Biochem Biophys Res Commun* 377, 975-80.
3. Petit, A. et al. (2005) *J Biol Chem* 280, 34025-32.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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