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Product Datasheet

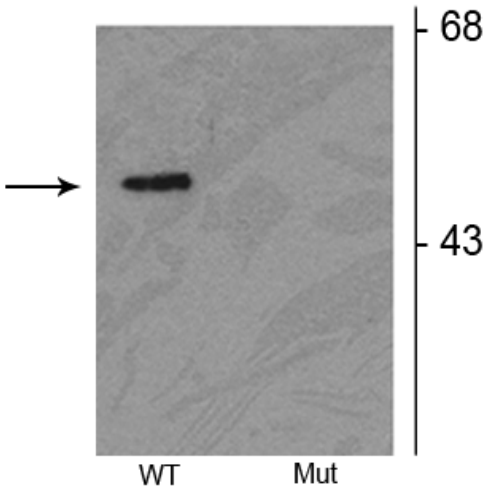
Anti-Parkin (Ser378)

Pooled Serum

Overview

Catalog #	p197-378
Host Species	Rabbit Polyclonal
Format	Antigen Affinity Purified from Pooled Serum
Applications	WB 1:1000
Species Tested	Human
Expected Reactivity	Bovine, Non-Human Primate
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser378 of human Parkin, conjugated to keyhole limpet hemocyanin (KLH).
Molecular Weight	52 kDa
Cite this Antibody	PhosphoSolutions Cat# p197-378, RRID:AB_2492203

Images



Western blot of HEK293 cells transfected with Parkin wild type (WT) and Parkin S378 mutant (Mut) showing the specific immunolabeling of the ~52 kDa parkin protein phosphorylated at Ser^{378}.

Details

Target Description	Parkin is an E3 ligase in the ubiquitin-proteasome system. Hereditary Parkinson's disease is most commonly caused by mutations in the parkin gene and is characterized by the progressive loss of dopaminergic neurons and the presence of Lewy bodies in the substantia nigra (Jenner et al.,1992). Recent evidence suggests that phosphorylation of parkin at Ser-378 may have an important regulatory role on its E3 ubiquitin ligase activity (Yamamoto et al., 2005).
Specificity	Specific for the ~52 kDa parkin protein phosphorylated at Ser378. Immunolabeling of the parkin band is absent in parkin S378 mutants.
Production/Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Quality Control	Western blots performed on each lot.
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol.
Stability	After date of receipt, stable for at least 1 year at -20°C.

Significant Citations

Rubio de la Torre, E., Luzon-Toro, B., Forte-Lago, I., Minguez-Castellanos, A., Ferrer, I. and Hilfiker, S., 2008. Combined kinase inhibition modulates parkin inactivation. *Human Molecular Genetics*, 18(5), pp.809-823.

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