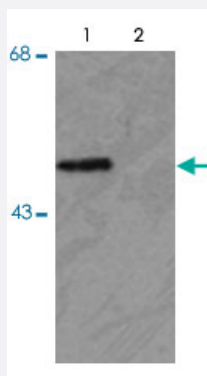


PARK2 (phospho S378) polyclonal antibody

Catalog # PAB9602

Size 100 uL

Applications



Western Blot (Transfected lysate)

Western blot of HEK293 cells transfected with PARK2 WT (Phospho) and PARK2 S378 mutant (non-phospho) showing the phospho-specific immunolabeling of the ~ 52 k parkin protein. The immunolabeling is absent in the PARK2 S378 mutant.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of PARK2.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S378 of human PARK2.
Host	Rabbit
Theoretical MW (kDa)	52
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM HEPES, 150 mM NaCl, pH 7.5 (50% glycerol, 10% BSA)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

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Gene Info — PARK2

Entrez GeneID [5071](#)

Protein Accession# [O60260](#)

Gene Name PARK2

Gene Alias AR-JP, LPRS2, PDJ, PRKN

Gene Description Parkinson disease (autosomal recessive, juvenile) 2, parkin

Omim ID [211980](#) [600116](#) [602544](#) [604370](#) [607572](#)

Gene Ontology [Hyperlink](#)

Gene Summary The precise function of this gene is unknown; however, the encoded protein is a component of a multiprotein E3 ubiquitin ligase complex that mediates the targeting of substrate proteins for proteasomal degradation. Mutations in this gene are known to cause Parkinson disease and autosomal recessive juvenile Parkinson disease. Alternative splicing of this gene produces multiple transcript variants encoding distinct isoforms. Additional splice variants of this gene have been described but currently lack transcript support. [provided by RefSeq]

Other Designations E3 ubiquitin ligase|OTTHUMP00000017565|OTTHUMP00000017566|OTTHUMP00000017567|parkin|parkin 2

Publication Reference

- [Parkin phosphorylation and modulation of its E3 ubiquitin ligase activity.](#)

Yamamoto A, Friedlein A, Imai Y, Takahashi R, Kahle PJ, Haass C.

The Journal of Biological Chemistry 2005 Feb; 280(5):3390.

- [Oxidative stress as a cause of nigral cell death in Parkinson's disease and incidental Lewy body disease. The Royal Kings and Queens Parkinson's Disease Research Group.](#)

Jenner P, Dexter DT, Sian J, Schapira AH, Marsden CD.

Annals of Neurology 1992 Jan; 32 Suppl:S82.

Pathway

- [Ubiquitin mediated proteolysis](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Choice Behavior](#)
- [Cognition Disorders](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Dystonic Disorders](#)
- [Edema](#)
- [Essential tremor](#)
- [Genetic Predisposition to Disease](#)
- [Leprosy](#)
- [Movement Disorders](#)
- [Nerve Degeneration](#)
- [Neuropsychological Tests](#)
- [Paratyphoid Fever](#)

- [Parkinson disease](#)
- [Parkinsonian Disorders](#)
- [Pattern Recognition](#)
- [Reaction Time](#)
- [Supranuclear Palsy](#)
- [Tobacco Use Disorder](#)
- [Tremor](#)
- [Tuberculosis](#)
- [Typhoid Fever](#)