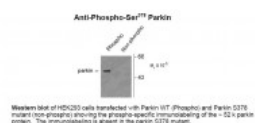




Parkin (phospho Ser378) Antibody

CATALOG NUMBER: 50-248



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

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	WB
APPLICATIONS:	The antibody has been directly tested for reactivity in Western blots with human tissue.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
PREDICTED MOLECULAR WEIGHT:	52
IMMUNOGEN:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser378 of human parkin.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	Affinity Purified
PHYSICAL STATE:	Liquid
BUFFER:	100 uL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per mL BSA and 50% glycerol.
STORAGE CONDITIONS:	Parkin antibody can be stored at -20°C and is stable at -20°C for at least 1 year.
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	PDJ, PRKN, AR-JP, LPRS2, Parkinson juvenile disease protein 2, Parkinson disease protein 2
ACCESSION NO.:	O60260
PROTEIN GI NO.:	116242725
OFFICIAL SYMBOL:	PARK2
GENE ID:	5071

Background

BACKGROUND:

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 Ser378 may have an important regulatory role on its E3 ubiquitin ligase activity (Yamamoto et al., 2005).

REFERENCES:

- 1) Jenner P, Dexter DT, Sian J, Schapira AH, Marsden CD (1992) Oxidative stress as a cause of nigral cell death in Parkinson's disease and incidental Lewy body disease. *Ann Neurol.* 32 Suppl: S82-7.
- 2) Yamamoto A, Friedlein A, Imai Y, Takahashi R, Kahle PJ, Haass C (2005) Parkin phosphorylation and modulation of its E3 ubiquitin ligase activity. *J Biol Chem.* 280(5):3390-9

FOR RESEARCH USE ONLY

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