

Product datasheet

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ARG52389 anti-Parkin phospho (Ser101) antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Parkin phospho (Ser101)

Tested Reactivity Hu

Predict Reactivity Bov, NHuPrm

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Parkin
Species Human

Immunogen Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser101 conjugated to

KLH

Conjugation Un-conjugated

Alternate Names AR-JP; EC 6.3.2.-; PRKN; Parkinson juvenile disease protein 2; E3 ubiquitin-protein ligase parkin; PDJ;

Parkin; LPRS2; Parkinson disease protein 2

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	Specific for the ~52k parkin protein phosphorylated at Ser101 . Immunolabeling of the parkin band is absent in parkin S101 mutants. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity Purified

Buffer 10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol

Stabilizer 0.1 mg/ml BSA, 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 5071 Human

Swiss-port # O60260 Human

Gene Symbol PARK2

Gene Full Name parkin RBR E3 ubiquitin protein ligase

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 substania nigra (Jenner et al.,1992). Recent evidence suggests that phosphorylation of parkin at Ser101 may have an important regulatory

role on its E3 ubiquitin ligase activity (Yamamoto et al., 2005).

Research Area Cell Biology and Cellular Response antibody; Metabolism antibody; Neuroscience antibody

Calculated Mw 52 kDa

PTM Auto-ubiquitinates in an E2-dependent manner leading to its own degradation (PubMed:19229105).

Also polyubiquitinated by RNF41 for proteasomal degradation.

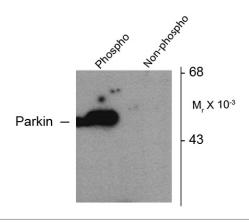
S-nitrosylated. The inhibition of PRKN ubiquitin E3 ligase activity by S-nitrosylation could contribute to

the degenerative process in PD by impairing the ubiquitination of PRKN substrates.

Phosphorylation at Ser-65 by PINK1 contributes to activate PRKN activity. It is however not sufficient

and requires binding to phosphorylated ubiquitin as well.

Images



ARG52389 anti-Parkin phospho (Ser101) antibody WB image

Western blot: HEK293 cells transfected with Parkin WT (Phospho) and Parkin S101 mutant (non-phospho) showing the phosphospecific immunolabeling of the $^{\sim}$ 52 k parkin protein stained with ARG52389 anti-Parkin phospho (Ser101) antibody. The immunolabeling is absent in the parkin S101 mutant.