

Rabbit Parkin Polyclonal Antibody | anti-PRKN antibody

Phospho-Parkin (Ser65) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329216	Rabbit	Human, Mouse, Rat	ELISA, Western Blot

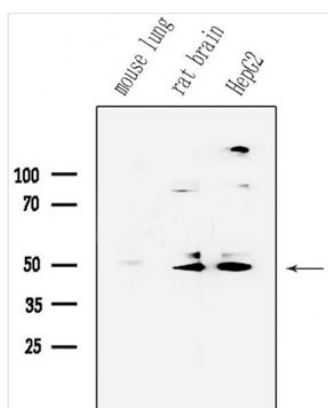
PRODUCT SYNONYMS

Parkin; Polyclonal Antibody; Phospho-Parkin (Ser65) Antibody; AR JP; E3 ubiquitin ligase; E3 ubiquitin protein ligase parkin; E3 ubiquitin-protein ligase parkin; FRA6E; LPRS 2; LPRS2; PARK 2; Park2; Parkin 2; Parkinson disease (autosomal recessive juvenile) 2; Parkinson disease (autosomal recessive; juvenile) 2; parkin; Parkinson disease protein 2; Parkinson juvenile disease protein 2; Parkinson protein 2 E3 ubiquitin protein ligase; Parkinson protein 2; E3 ubiquitin protein ligase (parkin); PDJ; PRKN 2; PRKN; PRKN2; PRKN2_HUMAN; Ubiquitin E3 ligase PRKN; anti-PRKN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	Phospho-Parkin (Ser65) Antibody detects endogenous levels of Parkin only when phosphorylated at Ser65.
Purity/Purification	Peptide affinity purification
Form/Format	IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PRKN antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide derived from human Parkin around the phosphorylation site of Ser65.
Preparation and Storage	Store at -20°C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis on mouse brain cell lysates using Parkin Antibody. The lane on the left was treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKN antibody	Functions within a multiprotein E3 ubiquitin ligase complex, catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins, such as BCL2, SYT11, CCNE1, GPR37, RHOT1/MIRO1, MFN1, MFN2, STUB1, SNCAIP, SEPTIN5, TOMM20, USP30, ZNF746 and AIMP2. Mediates monoubiquitination as well as 'Lys-6', 'Lys-11', 'Lys-48'-linked and 'Lys-63'-linked polyubiquitination of substrates depending on the context. Participates in the removal and/or detoxification of abnormally folded or damaged protein by mediating 'Lys-63'-linked polyubiquitination of misfolded proteins such as PARK7: 'Lys-63'-linked polyubiquitinated misfolded proteins are then recognized by HDAC6, leading to their recruitment to aggresomes, followed by degradation. Mediates 'Lys-63'-linked polyubiquitination of a 22kDa O-linked glycosylated isoform of SNCAIP, possibly playing a role in Lewy-body formation. Mediates monoubiquitination of BCL2, thereby acting as a positive regulator of autophagy. Promotes the autophagic degradation of dysfunctional depolarized mitochondria (mitophagy) by promoting the ubiquitination of mitochondrial proteins such as TOMM20, RHOT1/MIRO1 and USP30. Preferentially assembles 'Lys-6'-, 'Lys-11'- and 'Lys-63'-linked polyubiquitin chains following mitochondrial damage, leading to mitophagy. Mediates 'Lys-48'-linked polyubiquitination of ZNF746, followed by degradation of ZNF746 by the proteasome; possibly playing a role in the regulation of neuron death. Limits the production of reactive oxygen species (ROS). Regulates cyclin-E during neuronal apoptosis. In collaboration with CHPF isoform 2, may enhance cell viability and protect cells from oxidative stress. Independently of its ubiquitin ligase activity, protects from apoptosis by the transcriptional repression of p53/TP53. May protect neurons against alpha synuclein toxicity, proteasomal dysfunction, GPR37 accumulation, and kainate-induced excitotoxicity. May play a role in controlling neurotransmitter trafficking at the presynaptic terminal and in calcium-dependent exocytosis. May represent a tumor suppressor gene.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	169790969
NCBI GeneID	5071
NCBI Accession #	NP_004553.2
NCBI GenBank Nucleotide #	NM_004562.2
UniProt Accession #	O60260; Q5TFV8; Q6Q2I6; Q8NI41; Q8NI43; Q8NI44; Q8WW07; A3FG77; A8K975
NCBI Official Full Name	E3 ubiquitin-protein ligase parkin isoform 1
NCBI Official Synonym Full Names	parkinson protein 2, E3 ubiquitin protein ligase (parkin)
NCBI Official Symbol	PARK2
NCBI Official Synonym Symbols	PDJ; PRKN; AR-JP; LPRS2
NCBI Protein Information	E3 ubiquitin-protein ligase parkin; parkinson juvenile disease protein 2; Parkinson disease (autosomal recessive, juvenile) 2, parkin
UniProt Protein Name	E3 ubiquitin-protein ligase parkin
UniProt Gene Name	PARK2
UniProt Synonym Gene Names	PRKN; Parkinson disease protein 2
UniProt Entry Name	PRKN2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.