

Parkin Polyclonal Antibody | anti-PARK2 antibody

Anti-Parkin Antibody

CATALOG # AAA46524	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunocytochemistry, Immunohistochemistry, Western Blot
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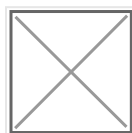
PRODUCT SYNONYMS

Parkin; Polyclonal Antibody; Anti-Parkin Antibody; E3 ubiquitin-protein ligase parkin; AR JP; E3 ubiquitin ligase; 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; parkin RBR E3 ubiquitin protein ligase; anti-PARK2 antibody

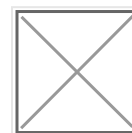
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	465
Applicable Applications for anti-PARK2 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Gene Name	parkin RBR E3 ubiquitin protein ligase
Immunogen	E Coli-derived human Parkin recombinant protein (Position: I23-K416). Human Parkin shares 82% and 84% amino acid (aa) sequence identity with mouse and rat Parkin, respectively.
Relevant Detection Systems	The lab provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescent kit in WB, supported by in IHC(P) and ICC.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquoted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

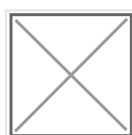
IMAGES


ICC (Immunocytochemistry)

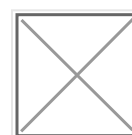
Anti- Parkin Picoband antibody, AAA46524, ICCIC: NEURO-2alpha Cell


IHC (Immunohistochemistry)

Anti- Parkin Picoband antibody, AAA46524, IHC(P)IHC(P): Human Intestinal Cancer Tissue


IHC (Immunohistochemistry)

Anti- Parkin Picoband antibody, AAA46524, IHC(P)IHC(P): Rat Brain Tissue


IHC (Immunohistochemistry)

Anti- Parkin Picoband antibody, AAA46524, IHC(P)IHC(P): Mouse Brain Tissue



WB (Western Blot)

Anti- Parkin Picoband antibody, AAA46524, Western blottingAll lanes: Anti Parkin (AAA46524)
at 0.5ug/mlLane 1: U87 Whole Cell Lysate at 40ugLane 2: Mouse Brain Tissue Lysate at
50ugPredicted bind size: 66KDObserved bind size: 66KD

ADDITIONAL INFORMATION

Related Product Information for anti-PARK2 antibody	Background: Parkin is a RING domain-containing E3 ubiquitin ligase involved in proteasome-dependent degradation of proteins. It is mapped to 6q26. This gene is important for mitochondrial quality control by lysosome-dependent degradation of damaged mitochondria through autophagy, or mitophagy. Parkin is expressed in neuronal processes and cell bodies of neurons, but not glial cells, in the midbrain, basal ganglia, cerebral cortex, and cerebellum. Parkin assimilated with actin filaments, suggesting that it is a cytoskeletal-associated protein. Parkin is identified as a transcriptional repressor of p53 independent of its ubiquitin ligase function. It also has been found that parkin was associated physically with mitochondrial DNA (mtDNA) in proliferating as well as in differentiated SH-SY5Y neuroblastoma cells.
References	1. Huynh, D. P., Scoles, D. R., Ho, T. H., Del Bigio, M. R., Pulst, S.-M. Parkin is associated with actin filaments in neuronal and nonneuronal cells. Ann. Neurol. 48: 737-744, 2000. 2. Kitada T, Asakawa S, Hattori N, Matsumine H, Yamamura Y, Minoshima S et al. (Apr 1998). "Mutations in the parkin gene cause autosomal recessive juvenile parkinsonism". Nature 392 (6676): 605-608. 3. Rothfuss, O., Fischer, H., Hasegawa, T., Maisel, M., Leitner, P., Miesel, F., Sharma, M., Bornemann, A., Berg, D., Gasser, T., Patenge, N. Parkin promotes mitochondrial genome integrity and supports mitochondrial DNA repair. Hum. Molec. Genet. 18: 3832-3850, 2009.

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; Q5VVX4; Q6Q2I6; Q8NI41; Q8NI43; Q8NI44; Q8WW07; A3FG77; A8K975; D3JZW7; D3K2X0
NCBI Official Full Name	E3 ubiquitin-protein ligase parkin isoform 1
NCBI Official Synonym Full Names	parkin RBR E3 ubiquitin protein ligase
NCBI Official Symbol	PARK2
NCBI Official Synonym Symbols	PDJ; PRKN; AR-JP; LPRS2
NCBI Protein Information	E3 ubiquitin-protein ligase parkin
UniProt Protein Name	E3 ubiquitin-protein ligase parkin
UniProt Gene Name	PARK2
UniProt Synonym Gene Names	PRKN; Parkin; 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.