

Rabbit anti-Human E3 ubiquitin-protein ligase parkin Polyclonal Antibody | anti-PARK2 antibody

Rabbit anti-human E3 ubiquitin-protein ligase parkin polyclonal Antibody

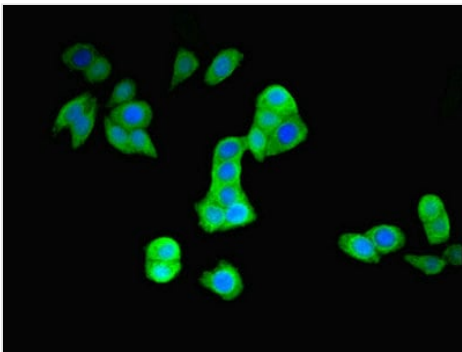
CATALOG # AAA114176	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

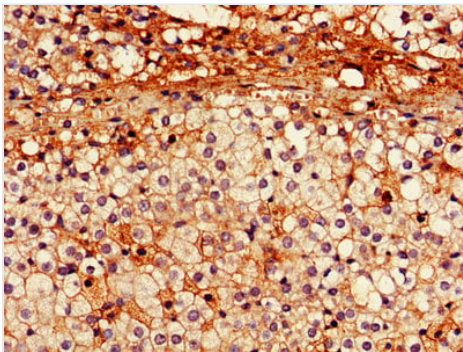
E3 ubiquitin-protein ligase parkin; Polyclonal Antibody; Rabbit anti-human E3 ubiquitin-protein ligase parkin polyclonal Antibody; Parkinson juvenile disease protein 2; Parkinson disease protein 2; PRKN; PARK2; anti-PARK2 antibody

PRODUCT SPECIFICATIONS

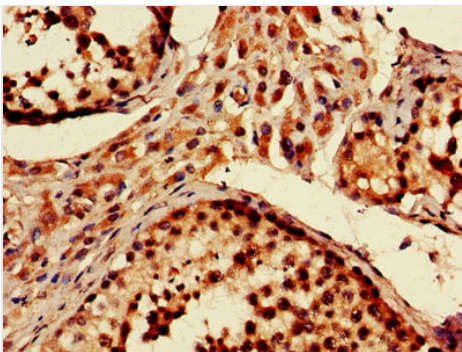
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Sequence Length	465
Applicable Applications for anti-PARK2 antibody	IHC (Immunohistochemistry), ELISA
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Non-conjugated
Immunogen	Recombinant human E3 ubiquitin-protein ligase parkin protein(1-465AA)
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-31601 / sc-13279 / sc-31603 / sc-30130
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.



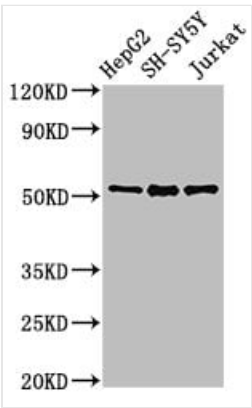
IF (Immunofluorescence)
Immunofluorescent analysis of PC3 cells using AAA114176 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



IHC (Immunohistochemistry)
IHC image of AAA114176 diluted at 1:600 and staining in paraffin-embedded human adrenal gland tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC (Immunohistochemistry)
IHC image of AAA114176 diluted at 1:600 and staining in paraffin-embedded human testis tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



WB (Western Blot)
Western BlotPositive WB detected in: HepG2 whole cell lysate, SH-SY5Y whole cell lysate, Jurkat whole cell lysateAll lanes: PARK2 antibody at 3ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 52,49,24,31,43,36,44,47 KDaObserved band size: 52 KDa

ADDITIONAL INFORMATION

Related Product Information for anti-PARK2 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, a 22 kDa O-linked glycosylated isoform of SNCAIP, SEPT5, TOMM20, USP30, ZNF746 and AIMP2. Mediates monoubiquitination as well as '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 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 (PubMed:24896179). 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.

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
Molecular Weight	46,413 Da
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/e3-ubiquitin-protein-ligase-parkin-antibody-immunohistochemistry-elisa/114176>