Datasheet for ABIN7151093

anti-Parkin antibody (AA 1-465)

4 Images

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Overview

Quantity:	100 µg
Target:	Parkin (PARK2)
Binding Specificity:	AA 1-465
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Parkin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human E3 ubiquitin-protein ligase parkin protein (1-465AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	Parkin (PARK2)
Alternative Name:	PRKN (PARK2 Products)
Background:	Background: Functions within a multiprotein E3 ubiquitin ligase complex, catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins, such as BCL2, SYT11,

Target Details

	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. Aliases: AR JP antibody, E3 ubiquitin ligase antibody, E3 ubiquitin protein ligase parkin antibody, E3 ubiquitin-protein ligase parkin antibody, FRA6E antibody, LPRS 2 antibody, LPRS2 antibody, PARK 2 antibody, Park2 antibody, Parkin 2 antibody, Parkinson disease (autosomal recessive juvenile) 2 antibody, Parkinson disease (autosomal recessive, juvenile) 2, parkin antibody, Parkinson disease protein 2 antibody, Parkinson juvenile disease protein 2 antibody, Parkinson protein 2 E3 ubiquitin protein ligase antibody, Parkinson protein 2, E3 ubiquitin protein ligase (parkin) antibody, PDJ antibody, PRKN 2 antibody, PRKN antibody, PRKN2 antibody, PRKN2_HUMAN antibody, Ubiquitin E3 ligase PRKN antibody
UniProt:	O60260
Pathways:	Autophagy, Ubiquitin Proteasome Pathway

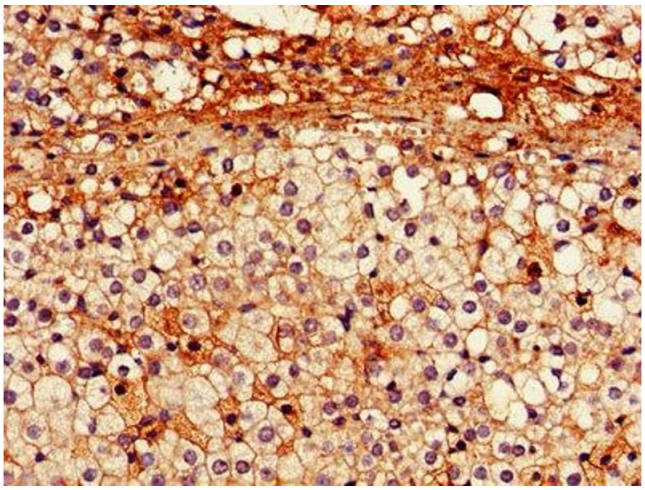
Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:500-1:1000, IF:1:50-1:500,
Restrictions:	For Research Use only

Handling

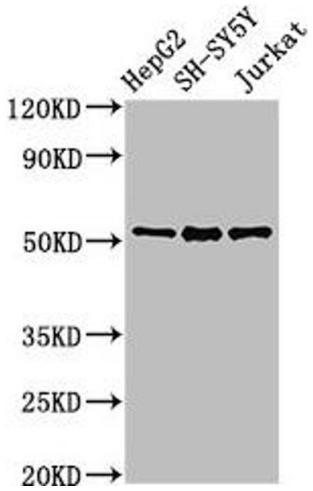
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

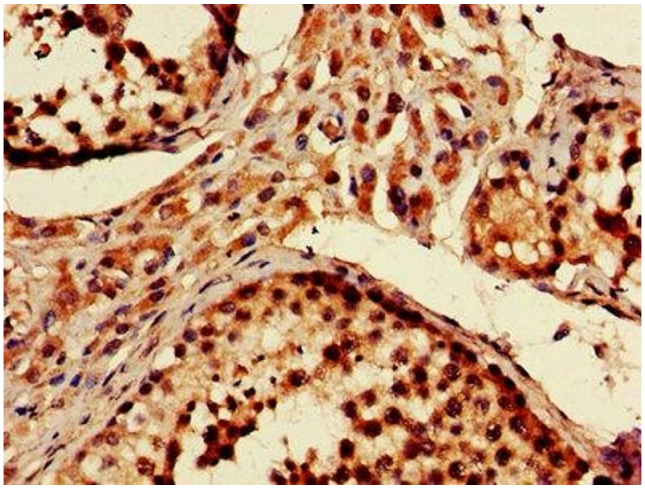
Image 1. IHC image of ABIN7151093 diluted at 1:600 and staining in paraffin-embedded human adrenal gland tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: HepG2 whole cell lysate, SH-SY5Y whole cell lysate, Jurkat whole cell lysate All lanes: PRKN antibody at 3 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 52, 49, 24, 31, 43, 36, 44, 47 kDa Observed band size: 52 kDa

Images



Immunohistochemistry

Image 3. IHC image of ABIN7151093 diluted at 1:600 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM 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°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Please check the product details page for more images. Overall 4 images are available for ABIN7151093.