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Product datasheet for TA329563

Prkn Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-Park2 antibody: synthetic peptide corresponding to a region of Mouse. Synthetic peptide located within the following region: YTRYQQYGAEECVLQMGGVLCPRPGCGAGLLPEQGQRKVTCEGGNGLGCG
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. *Note that this product is shipped as lyophilized powder to China customers.*
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	51 kDa
Gene Name:	Parkinson disease (autosomal recessive, juvenile) 2, parkin
Database Link:	NP_057903 Entrez Gene 50873 Mouse Q9WVS6

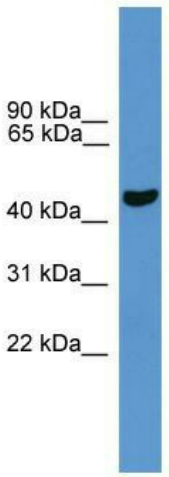
View online »

Background: Park2 functions within a multiprotein E3 ubiquitin ligase complex, catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins. These substrates include SYT11, CCNE1, GPR37, STUB1, a 22 kDa O-linked glycosylated isoform of SNCAIP, SEPT5 and AIMP2. Park2 may play a more general role in the ubiquitin proteasomal pathway by participating in the removal and/or detoxification of abnormally folded or damaged protein. Park2 limits the production of reactive oxygen species (ROS). Loss of this ubiquitin ligase activity appears to be the mechanism underlying pathogenesis of AR-JP. Park2 may protect neurons against alpha synuclein toxicity, proteasomal dysfunction, GPR37 accumulation, and kainate-induced excitotoxicity. Park2 may play a role in controlling neurotransmitter trafficking at the presynaptic terminal and in calcium-dependent exocytosis. Park2 regulates cyclin E during neuronal apoptosis. Park2 may represent a tumor suppressor gene. Park2 promotes the autophagic degradation of dysfunctional depolarized mitochondria.

Synonyms: AR-JP; LPRS2; parkin; PDJ; PRKN

Note: Immunogen sequence homology: Human: 100%; Pig: 93%; Bovine: 92%; Dog: 86%; Rat: 86%; Mouse: 86%

Product images:



WB Suggested Anti-Park2 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:312500; Positive Control: Mouse Liver