PARK9 Antibody



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 150	Source/Isotype: Rabbit	UniProt ID: #Q9NQ11	Entrez-Gene Id: 23400
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		PARK9 Antibody recognizes endogenous levels of total PARK9 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser282 of human PARK9 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Parkinson's disease (PD), the second most common neurodegenerative disease after Alzheimer's, is a progressive movement disorder characterized by rigidity, tremors and postural instability. The pathological hallmark of PD is progressive loss of dopaminergic neurons in the substantia nigra of the ventral midbrain and the presence of intracellular Lewy bodies (protein aggregates of α -synuclein, ubiquitin and other components) in surviving neurons of the brain stem (1). Various genes and loci (α -synuclein/PARK1 and 4, parkin/PARK2, UCH-L1/PARK5, PINK1/PARK6, DJ-1/PARK7, LRRK2/PARK8, ATP13A2/PARK9) are genetically linked to PD (2).				
		lysosomal degradation transmembrane domai three known mutations retained in the endopla expressed in the brain	pathway, clearing ns and wild-type l s, which have prer asmic reticulum ar and has been link insonism that is c	nber of the P-type ATPase y α-synuclein aggregates PARK9 localizes to the lys nature stop codons resu nd degraded by the prote ed to Kufor-Rakeb Syndr haracterized by juvenile-	s (3,4). The protein he sosomal membrane lting in a truncated easome. PARK9 is prome, a monogenic	nas 10 In contrast, all protein, are redominantly form of recessively
Background References		 Fahn, S. (2003) Ann N Y Acad Sci 991, 1-14. Moore, D.J. et al. (2005) Annu Rev Neurosci 28, 57-87. Ramirez, A. et al. (2006) Nat Genet 38, 1184-91. Xiromerisiou, G. et al. (2010) Neurosurg Focus 28, E7. Klein, C. and Lohmann-Hedrich, K. (2007) Curr Opin Neurol 20, 453-64. 				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				

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