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DJ-1 (D21E11) Rabbit mAb



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 22	Source/Isotype: Rabbit IgG	UniProt ID: #Q99497	Entrez-Gene Id: 11315
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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		DJ-1 (D21E11) Rabbit mAb detects endogenous levels of total DJ-1 protein. DJ-1 (D21E11) Rabbit mAb is recommended to detect human samples but may also detect mouse and rat samples weakly.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly150 of human DJ-1 protein.				
Background		Parkinson's disease (PD) is characterized by the presence of Lewy bodies (intracellular inclusions) and by the loss of dopaminergic neurons. Research studies have shown that mutations in α-synuclein, Parkin, and DJ-1 are linked to PD (1). α-synuclein is a major component of the aggregates found in Lewy bodies. Parkin is involved in protein degradation through the ubiquitin-proteasome pathway, and investigators have shown that mutations in Parkin cause early onset of PD (1). Loss-of-function mutations in DJ-1 cause early onset of PD, but DJ-1 is associated with multiple functions: it cooperates with Ras to increase cell transformation, it positively regulates transcription of the androgen receptor, and it may function as an indicator of oxidative stress (2-5). Dopamine D2 receptor-mediated functions are greatly impaired in DJ-1 (-/-) mice, resulting in reduced long-term depression (6).				
Background References		1. Borrelli, E. (2005) <i>Neuron</i> 45, 479-81. 2. Bonifati, V. et al. (2003) <i>Science</i> 299, 256-9. 3. Nagakubo, D. et al. (1997) <i>Biochem. Biophys. Res. Commun.</i> 231, 509-13. 4. Takahashi, K. et al. (2001) <i>J. Biol. Chem.</i> 276, 37556-63. 5. Mitsumoto, A. and Nakagawa, Y. (2001) <i>Free Radic. Res.</i> 35, 885-93. 6. Goldberg, M.S. et al. (2005) <i>Neuron</i> 45, 489-96.				

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

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