| e at -20C | DJ-1 (D21E11) Rabbit mAb | | Cell Signaling TECHNOLOGY® | | |
|-----------|--------------------------|----------------------------|--|--|--|
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| For Research Use Only. Not for Use in Diagnostic Procedures. |
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| Applications: Re WB, IP | activity: Sensi H Endog | | : Source/Isotype: Rabbit IgG | UniProt ID: #Q99497 | Entrez-Gene Id: 11315 | | | |
|--|---|---|---|-----------------------------------|--------------------------|--|--|--|
| Product Usage Information | Application Western Blot Immunopreci | 0 | | Dilution 1:1000 1:50 | | | | |
| Storage | torage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less th 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 | the loss of dop DJ-1 are linke Parkin is invol shown that mu onset of PD, b transformatior indicator of ox | 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 DJ-1 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 Reference | 2. Bonifati, V. 3. Nagakubo, 4. Takahashi, 5. Mitsumoto, | Borrelli, E. (2005) Neuron 45, 479-81. Bonifati, V. et al. (2003) Science 299, 256-9. Nagakubo, D. et al. (1997) Biochem. Biophys. Res. Commun. 231, 509-13. Takahashi, K. et al. (2001) J. Biol. Chem. 276, 37556-63. Mitsumoto, A. and Nakagawa, Y. (2001) Free Radic. Res. 35, 885-93. Goldberg, M.S. et al. (2005) Neuron 45, 489-96. | | | | | | |
| Species Reactivity | Species reactiv | 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 | WB: Western | WB: Western Blotting IP: Immunoprecipitation | | | | | | |
| Cross-Reactivity Key | X: Xenopus Z: | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected | | | | | | |
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