

DJ-1 Antibody, pAb, Rabbit**Cat. No.:** A01207-40**Size:** 40 µg**Synonyms:** Rabbit Anti DJ-1 Polyclonal Antibody;**Description:**

DJ-1 belongs to the C56 peptidase family. It acts as a positive regulator of androgen receptor-dependent transcription. It may also function as a redox-sensitive chaperone and a sensor for oxidative stress. It apparently protects neurons against oxidative stress and cell death. Defects in PARK7 gene cause autosomal recessive early-onset Parkinson disease 7.

Specifically, defects in PARK7 are characterized by PD onset before the age of 40, slow progression of the condition, and initial good response to levodopa. Parkinson's disease (PD) is a complex, multifactorial disorder that typically manifests after the age of 50 years. However, cases of early-onset PD are sometimes found. PD generally arises as a sporadic condition but can be inherited as a simple Mendelian trait. Although sporadic and familial PD are very similar, inherited forms of the disease usually begin at an earlier age and are associated with atypical clinical features.

PD is characterized by bradykinesia, resting tremors, muscular rigidity, and postural instability, as well as by a significant clinical response to treatment with levodopa. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of protein aggregates) in surviving neurons at various areas of the brain.

GenScript **Rabbit Anti-DJ-1 Polyclonal Antibody** is developed in rabbit using a KLH-coupled synthetic peptide within carboxyl terminal of human DJ-1 protein (Swiss Prot: Q99497).

Immunogen: Synthetic peptide (KLH-coupled) within carboxyl terminal of human DJ-1 protein (Swiss Prot: Q99497)

Host: Rabbit**Antigen Synonyms:** Human**Conjugation:** Unconjugated**Predicated Band Size:**

20 kD

Observed Band Size:

24 kD

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Ig Subclass: Rabbit IgG

Specificity: GenScript Rabbit Anti-DJ-1 Polyclonal Antibody detects endogenous levels of human DJ-1 protein. Sequence homology predicts that it will also react with rat and mouse DJ-1 protein.

Purification: Immunoaffinity chromatography**Applications:**

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.05-0.2 µg/ml**Western blot:** 0.5-1 µg/ml**Immunohistochemistry:** 5-10 µg/ml**Other applications:** user-optimized

Species Reactivity: Human. This product has not yet been tested with other species.

Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.