

HA610458



Product Type:	Recombinant Chimeric, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 20 kDa
Clone number:	SN07-21

Description:	PARK7/DJ1 is a ubiquitously expressed protein involved in various cellular processes including cell proliferation, RNA-binding, and oxidative stress. The protein has been found to colocalize within a subset of pathologic tau inclusions in a diverse group of neurodegenerative disorders known as tauopathies. Defects in PARK7/DJ1 are the cause of autosomal recessive early-onset Parkinson's disease 7 (PARK7). Parkinson's disease (PD) is a complex, multifactorial disorder that typically manifests after the age of 50 years. The disease is characterized by bradykinesia, resting tremor, muscular rigidity and postural instability. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated proteins), in surviving neurons in various areas of the brain. PARK7 is characterized by onset before 40 years and slow progression. It has also been suggested that PARK7/DJ1 is a mitogen dependent oncogene product involved in Ras related signal transduction pathways.
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Immunogen:	Synthetic peptide within Human PARK7 aa 11-60 / 189.
Positive control:	SH-SY5Y (Human neuroblastoma cell) cell lysate, NIH/3T3 (Mouse fibroblast) cell lysate, C6 (Rat glioma cell) cell lysate, Mouse brain tissue lysate, Rat brain tissue lysate.
Subcellular location:	Cell membrane, Cytoplasm, Endoplasmic reticulum, Membrane, Mitochondrion, Nucleus.
Database links:	SwissProt: Q99497 Human Q99LX0 Mouse O88767 Rat
Storage Buffer:	PBS (pH7.4).
Storage Instruction:	Store at 2-8℃. Avoid freeze.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

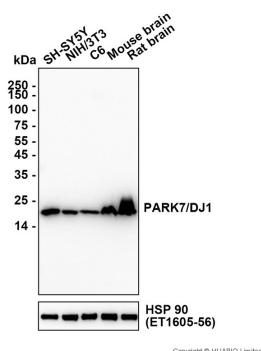
Service mail: support@huabio.cn

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Images

Fig1: This data was developed using HA601677, the same antibody clone in a different buffer formulation. Western blot analysis of PARK7/DJ1 on different lysates with Rat anti-PARK7/DJ1 antibody (HA601677) at 1/5,000 dilution.

Lane 1: SH-SY5Y (Human neuroblastoma cell) cell lysate
 Lane 2: NIH/3T3 (Mouse fibroblast) cell lysate
 Lane 3: C6 (Rat glioma cell) cell lysate
 Lane 4: Mouse brain tissue lysate
 Lane 5: Rat brain tissue lysate

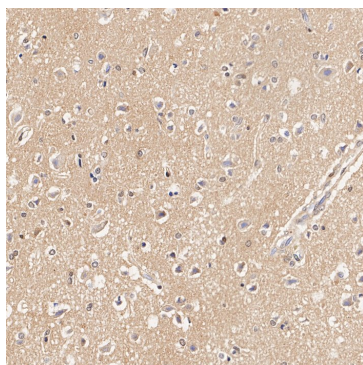


Lysates/proteins at 20 µg/Lane.
 Exposure time: 25 seconds; ECL: K1801

Blocking: 5% NFDM/TBST, 1 hour at room temperature
 Primary antibody: HA601677, 1/5,000 in primary antibody dilution buffer (K1803), overnight at 4 °C
 Secondary antibody: Goat anti-Rat IgG-HRP (HA1023), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 20 kDa
 Observed band size: 20 kDa

Fig2: This data was developed using HA601677, the same antibody clone in a different buffer formulation. Application: Immunohistochemistry (IHC-P)



Species: Human
 Tissue: Brain
 Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST
 Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.
 Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.
 Primary antibody: HA601677, 1/1,000, 1 hour at room temperature.
 Secondary antibody: HA1123, 20 minutes at room temperature.

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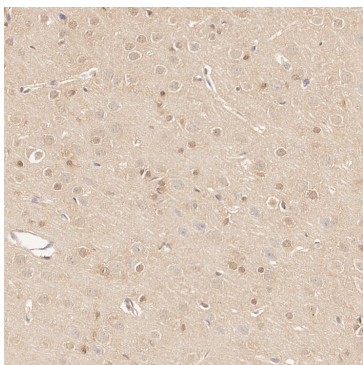


Fig3: This data was developed using HA601677, the same antibody clone in a different buffer formulation.

Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Brain

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA601677, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1123, 20 minutes at room temperature.

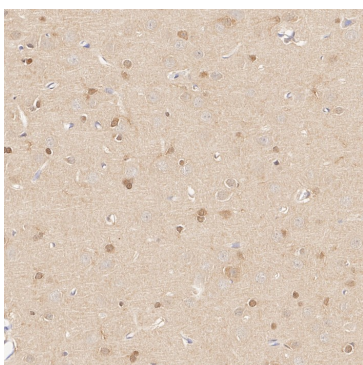


Fig4: This data was developed using HA601677, the same antibody clone in a different buffer formulation.

Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Brain

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA601677, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1123, 20 minutes at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Marín-Buera L et al. Differential proteomic profiling unveils new molecular mechanisms associated with mitochondrial complex III deficiency. J Proteomics 113:38-56 (2015).
2. Bifsha P et al. Rgs6 is required for adult maintenance of dopaminergic neurons in the ventral substantia nigra. PLoS Genet 10:e1004863 (2014).

