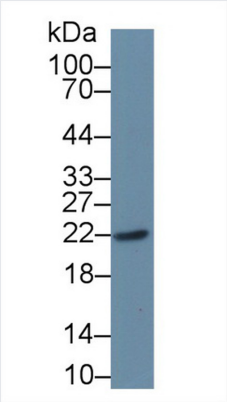
Parkinson Disease Protein 7 (PARK7) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Parkinson Disease Protein 7 (PARK7), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Parkinson Disease Protein 7 (PARK7)
Product Gene Name	anti-PARK7 antibody
Product Synonym Names	PARK7/Parkinson Disease Protein 7; DJ1; Autosomal Recessive, Early Onset
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Antigenspecific affinity chromatography followed by Protein A affinity chromatography
Concentration	500ug/mL (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against PARK7. It has been selected for its ability to recognize PARK7 in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: PARK7 (MBS2139804) APC-CY7 Conjugated Antibody: PARK7 (MBS2137770)
Matching Pairs	Unconjugated Antibody: PARK7 (MBS2139804) PE Conjugated Antibody: PARK7 (MBS2137771)
Matching Pairs	Unconjugated Antibody: PARK7 (MBS2139804) APC Conjugated Antibody: PARK7 (MBS2137772)
Matching Pairs	Unconjugated Antibody: PARK7 (MBS2139804) Cy3 Conjugated Antibody: PARK7 (MBS2137773)
Matching Pairs	Unconjugated Antibody: PARK7 (MBS2139804) Biotin Conjugated Antibody: PARK7 (MBS2137774)
Matching Pairs	Unconjugated Antibody: PARK7 (MBS2139804) FITC Conjugated Antibody: PARK7 (MBS2137775)
Matching Pairs	Unconjugated Antibody: PARK7 (MBS2139804) HRP Conjugated Antibody: PARK7 (MBS2137776)
Molecular Weight	20,021 Da
3D Structure	ModBase 3D Structure for Q99LX0
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Type	Prokaryotic Recombinant proteins/RP
Sequence of Immunogen	Ala2~Asp189
Conjugation	Unconjugated

Product Categories/Family for anti-PARK7 antibody	Neuro science; Primary
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-PARK7 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-PARK7 antibody	WB: 0.22ug/mL; 1:2502500 IHC: 520ug/mL; 1:25100 ICC: 520ug/mL; 1:25100
Related Product Information for anti-PARK7 antibody	MBS2139804 is an antibody targeting PARK7. Also known as Polyclonal Antibody to Parkinson Disease Protein 7 (PARK7). Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-PARK7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PARK7 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PARK7. It may not necessarily be applicable to this product.

NCBI GI #	55741460
NCBI GeneID	57320
NCBI Accession #	NP_065594.2
UniProt Primary Accession #	Q99LX0
UniProt Secondary Accession #	O88306; Q3THB9; Q3U509
UniProt Related Accession #	Q99LX0
GenBank Nucleotide #	NM_020569.3
NCBI Official Full Name	protein DJ-1
NCBI Official Synonym Full Names	Parkinson disease (autosomal recessive, early onset) 7
NCBI Official Symbol	Park7
NCBI Official Synonym Symbols	Dj1; DJ-1
UniProt Protein Name	Protein deglycase DJ-1
UniProt Synonym Protein Names	Parkinson disease protein 7 homolog
Protein Family	Protein deglycase
UniProt Gene Name	Park7

UniProt Entry Name	PARK7_MOUSE
NCBI Protein Information	protein deglycase DJ-1
UniProt Comments for PARK7	DJ-1: associated with autosomal recessive early onset parkinsonism. Involved in the oxidative stress response. Three cysteines in DJ-1 may be oxidized to cysteine sulphonic acid in the cellular response to H2O2. Loss of DJ-1 function may lead to neurodegeneration. Protein type: EC 3.4.-.-; Nuclear receptor co-regulator; Transcription regulation; Tumor suppressor Cellular Component: axon; cell-cell adherens junction; chromatin; cytoplasm; cytosol; endoplasmic reticulum; mitochondrial intermembrane space; mitochondrial matrix; mitochondrial respiratory chain complex I; mitochondrion; neuron projection; nucleus; perinuclear region of cytoplasm; PML body Molecular Function: androgen receptor binding; copper ion binding; cytokine binding; enzyme binding; identical protein binding; kinase binding; mercury ion binding; mRNA binding; oxidoreductase activity, acting on peroxide as acceptor; peptidase activity; peroxiredoxin activity; protein binding; protein homodimerization activity; receptor binding; RNA binding; superoxide dismutase copper chaperone activity; transcription coactivator activity; transcription factor binding Biological Process: adult locomotory behavior; cell proliferation; detoxification of copper ion; detoxification of mercury ion; dopamine uptake; enzyme active site formation via L-cysteine sulfinic acid; glycolate biosynthetic process; hydrogen peroxide metabolic process; lactate biosynthetic process; membrane depolarization; membrane hyperpolarization; methylglyoxal metabolic process; mitochondrion organization and biogenesis; negative regulation of apoptosis; negative regulation of neuron apoptosis; negative regulation of proteasomal ubiquitin-dependent protein catabolic process; negative regulation of protein amino acid phosphorylation; negative regulation of protein binding; negative regulation of protein catabolic process; negative regulation of protein export from nucleus; negative regulation of protein kinase activity; negative regulation of protein sumoylation; negative regulation of protein ubiquitination; negative regulation of ubiquitin-protein ligase activity; positive regulation of interleukin-8 production; positive regulation of peptidyl-serine phosphorylation; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; protein deglycosylation; protein stabilization; regulation of inflammatory response; regulation of mitochondrial membrane potential; regulation of neuron apoptosis; response to hydrogen peroxide; response to oxidative stress; synaptic transmission, dopaminergic
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