PARK7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PARK7, Polyclonal Antibody
Full Product Name	PARK7 Rabbit pAb
Product Gene Name	anti-PARK7 antibody
Product Synonym Names	Protein DJ-1; SP22; Protein DJ-1; Oncogene DJ1; Parkinson disease protein 7; PARK7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	20kDa
OMIM	168600
3D Structure	ModBase 3D Structure for Q99497
Immunogen	A synthesized peptide derived from human PARK7
Cellular Localization	Cell Membrane, Cytoplasm, Membrane, Mitochondrion, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PARK7 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunoprecipitation (IP), Flow Cytometry (FC/FACS)
Application Notes for anti-PARK7 antibody	WB: 1:1000-1:5000 IHC: 1:50-1:200 ICC/IF: 1:50-1:200 IP: 1:30 FC/FACS: 1:50
Related Product Information for anti-PARK7 antibody	Plays a role in regulating expression or stability of the mitochondrial uncoupling proteins SLC25A14 and SLC25A27 in dopaminergic neurons of the substantia nigra pars compacta and attenuates the oxidative stress induced by calcium entry into the neurons via L-type channels during pacemaking. 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.
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.
Searchable Terms for PARK7 purchase	MBS8542764 is an antibody targeting PARK7. Also known as PARK7 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	183227678
NCBI GeneID	11315
NCBI Accession #	NP_001116849.1
UniProt Primary Accession #	Q99497
GenBank Nucleotide #	NP_001116849.1
NCBI Official Full Name	protein/nucleic acid deglycase DJ-1
UniProt Protein Name	Protein DJ-1
UniProt Synonym Protein Names	Oncogene DJ1; Parkinson disease protein 7
Protein Family	Protein deglycase
UniProt Gene Name	PARK7
UniProt Entry Name	PARK7_HUMAN
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: Nuclear receptor co-regulator; EC 3.4.-.-; Tumor suppressor; Transcription regulation Chromosomal Location of Human Ortholog: 1p36.23 Cellular Component: PML body; mitochondrion; axon; mitochondrial matrix; cytoplasm; plasma membrane; mitochondrial intermembrane space; nucleus; chromatin; cytosol; mitochondrial respiratory chain complex I; lipid raft Molecular Function: identical protein binding; oxidoreductase activity, acting on peroxide as acceptor; protein homodimerization activity; transcription coactivator activity; mercury ion binding; transcription factor binding; peptidase activity; mRNA binding; protein binding; copper ion binding; enzyme binding; androgen receptor binding; peroxiredoxin activity; cytokine binding; double-stranded DNA binding; glyoxalase III activity; superoxide dismutase copper chaperone activity; kinase binding; single-stranded DNA binding; receptor binding Biological Process: negative regulation of protein export from nucleus; adult locomotory behavior; protein deglycosylation; membrane hyperpolarization; proteolysis; glycolate biosynthetic process; positive regulation of interleukin-8 production; negative regulation of protein amino acid phosphorylation; regulation of mitochondrial membrane potential; single fertilization; regulation of neuron apoptosis; enzyme active site formation via L-cysteine sulfinic acid; dopamine uptake; negative regulation of neuron apoptosis; inflammatory response; negative regulation of protein binding; mitochondrion organization and biogenesis; protein stabilization; activation of protein kinase B; regulation of TRAIL receptor biosynthetic process; detoxification of copper ion; negative regulation of protein sumoylation; positive regulation of peptidyl-serine phosphorylation; negative regulation of proteasomal ubiquitin-dependent protein catabolic process; methylglyoxal catabolic process to D-lactate; membrane depolarization; positive regulation of protein kinase B signaling cascade; detoxification of mercury ion; regulation of inflammatory response; Ras protein signal transduction; negative regulation of ubiquitin-protein ligase activity; hydrogen peroxide metabolic process; lactate biosynthetic process; autophagy; negative regulation of protein kinase activity; positive regulation of transcription factor activity; negative regulation of protein ubiquitination; positive regulation of transcription from RNA polymerase II promoter; negative regulation of apoptosis Disease: Parkinson Disease 7, Autosomal Recessive Early-onset
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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