

Recombinant Mouse Parp3 Protein, Myc/DDK-tagged

Cat. No. Parp3-4679M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length poly (ADP-ribose) polymerase family, member 3 (Parp3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Mono-ADP-ribosyltransferase that mediates mono-ADP-ribosylation of target proteins and plays a key role in the response to DNA damage. Mediates mono-ADP-ribosylation of glutamate, aspartate or lysine residues on target proteins. In contrast to PARP1 and PARP2, it is not able to mediate poly-ADP-ribosylation. Associates with a number of DNA repair factors and is involved in the response to exogenous and endogenous DNA strand breaks Together with APLF, promotes the retention of the LIG4-XRCC4 complex on chromatin and accelerate DNA ligation during non-homologous end-joining (NHEJ). Cooperates with the XRRC6-XRCC5 (Ku70-Ku80) heterodimer to limit end-resection thereby promoting accurate NHEJ Involved in DNA repair by mediating mono-ADP-ribosylation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism, such as XRRC5 and XRCC6. ADP-ribosylation follows DNA damage and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. May link the DNA damage surveillance network to the mitotic fidelity checkpoint. In addition to proteins, also able to ADP-ribosylate DNA: mediates DNA mono-ADP-ribosylation of DNA strand break termini via covalent addition of a single ADP-ribose

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moiety to a 5'- or 3'-terminal phosphate residues in DNA containing multiple strand breaks. Acts as a negative regulator of immunoglobulin class switch recombination, probably by controlling the level of AICDA /AID on the chromatin

Molecular Mass 59.4 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Parp3 poly (ADP-ribose) polymerase family, member 3 [Mus musculus (house mouse)]

Official Symbol Parp3

Synonyms PARP3; poly (ADP-ribose) polymerase family, member 3; poly [ADP-ribose] polymerase 3; NAD⁺ ADP-ribosyltransferase 3; Poly[ADP-ribose] synthetase-3; ADP-ribosyltransferase (NAD⁺, poly (ADP-ribose polymerase)-like 3; ADP-ribosyltransferase (NAD⁺; poly (ADP-ribose polymerase)-like 3; A DP-ribosyltransferase (NAD⁺; Adprt3; PARP-3; Adprt13; AW990611; pADPRT-3; A930002C11Rik

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Gene ID	235587
mRNA Refseq	NM_145619
Protein Refseq	NP_663594
UniProt ID	Q3UGL7

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