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Product datasheet for TP508459

Parp3 (NM_145619) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse poly (ADP-ribose) polymerase family, member 3 (Parp3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR208459 protein sequence Red=Cloning site Green=Tags(s) MAPKRKASVQTEGSKKQRQGTEEEDSFRSTAEALRAAPADNRVIRVDPSCPFSRNPGIQVHEDYDCTLNQ TNIGNNNNKFYIIQLLEEGSRFFCWNRWGRVGEVGQSKMNHFTCLEDAKKDFKKKFWEKTKNKWEERD RF VAQPNKYTLIEVQGEAESQEAVVKVDSGPVRTVVKPCSLDPATQNLITNIFSKEMFKNAMTLMNLDVKKM PLGKLTKQQIARGFEALEALEEAMKNPTGDGQSLEELSSCFYTVIPHNFGRSRPPPINSPDVLQAKKDML LVLADIELVQTLQAAPGEEEEKVEEVPHPLDRDYQLLRCQLQLLDSGESEYKAIQTYLKQTGNSYRCPNL RHVWKVNREGEGDRFQAHSKLGNRRLLWHGTNVAVVAAILTSGLRIMPHSGGRVGKGIYFASENSKSAG Y VTTMHCGGHQVGYMFLGEVALGKEHHITIDDPSLKSPPPGFDSVIARGQTEPDPAQDIELELDGQPVVVP QGPPVQCPSFKSSSFSQSEYLIYKESQCRLRYLLEIHL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	59.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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RefSeq:	NP_663594
Locus ID:	235587
UniProt ID:	Q3ULW8
RefSeq Size:	2633
Cytogenetics:	9 F1
RefSeq ORF:	1584
Synonyms:	A930002C11Rik; Adprt3; Adprtl3; AW990611; pADPRT-3; PARP-3
Summary:	Mono-ADP-ribosyltransferase that mediates mono-ADP-ribosylation of target proteins and plays a key role in the response to DNA damage (PubMed:21270334, PubMed:24598253). Mediates mono-ADP-ribosylation of glutamate, aspartate or lysine residues on target proteins (By similarity). In contrast to PARP1 and PARP2, it is not able to mediate poly-ADP-ribosylation (By similarity). Associates with a number of DNA repair factors and is involved in the response to exogenous and endogenous DNA strand breaks (PubMed:21270334). Together with APLF, promotes the retention of the LIG4-XRCC4 complex on chromatin and accelerate DNA ligation during non-homologous end-joining (NHEJ) (By similarity). Cooperates with the XRRC6-XRCC5 (Ku70-Ku80) heterodimer to limit end-resection thereby promoting accurate NHEJ (PubMed:24598253). 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 (By similarity). ADP-ribosylation follows DNA damage and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks (By similarity). May link the DNA damage surveillance network to the mitotic fidelity checkpoint (By similarity). 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 moiety to a 5'- or 3'-terminal phosphate residues in DNA containing multiple strand breaks (By similarity). Acts as a negative regulator of immunoglobulin class switch recombination, probably by controlling the level of AICDA /AID on the chromatin (PubMed:26000965).[UniProtKB/Swiss-Prot Function]