

## Recombinant Human PARP4, His-tagged

Cat. No. PARP4-2162H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant Human PARP4 was produced in <i>E. coli</i> . Catalytic domain of human minor vault p193 protein (aa 220-574) is fused at the C-terminus to a His-tag.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Length</b>   | 220-574 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | PARP4 encodes poly(ADP-ribosyl)transferase-like 1 protein, which is capable of catalyzing a poly(ADP-ribosyl)ation reaction. This protein has a catalytic domain which is homologous to that of poly (ADP-ribosyl) transferase, but lacks an N-terminal DNA binding domain which activates the C-terminal catalytic domain of poly (ADP-ribosyl) transferase. Since this protein is not capable of binding DNA directly, its transferase activity may be activated by other factors such as protein-protein interaction mediated by the extensive carboxyl terminus. |
| <b>Purity</b>           | ≥98%.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Formulation</b>      | Liquid. In PBS containing 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Concentration</b>    | 0.2mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | Store at -20°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | PARP4 poly (ADP-ribose) polymerase family, member 4 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | PARP4; poly (ADP-ribose) polymerase family, member 4; PH5P; p193; PARPL; VPARP; VWA5C; PARP-4; VAULT3; ADPRTL1; poly [ADP-ribose] polymerase 4; PARP-related; H5 proline-rich; I-alpha-I-related; 193 kDa vault protein; vault protein, 193-kDa; poly(ADP-ribose) synthetase; vault poly(ADP-ribose) polymerase; poly(ADP-ribosyl)transferase-like 1; PARP-related/IalphaI-related H5/proline-rich; von Willebrand factor A domain containing 5C; ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase)-like 1; EC 2.4.2.30; KIAA0177 |
| <b>Gene ID</b>             | 143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_006437                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_006428                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 607519                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | Q9UKK3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 13q11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | Base excision repair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Function</b>            | DNA binding; NAD+ ADP-ribosyltransferase activity; enzyme binding; protein binding; transferase activity, transferring glycosyl groups                                                                                                                                                                                                                                                                                                                                                                                                      |

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