

# Recombinant Full Length Human VDAC1 Protein, GST-tagged

**Cat. No.** VDAC1-175HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human full length VDAC1(1 a.a. - 283 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1 a.a. - 283 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | This gene encodes a voltage-dependent anion channel protein that is a major component of the outer mitochondrial membrane. The encoded protein facilitates the exchange of metabolites and ions across the outer mitochondrial membrane and may regulate mitochondrial functions. This protein also forms channels in the plasma membrane and may be involved in transmembrane electron transport. Alternate splicing results in multiple transcript variants. Multiple pseudogenes of this gene are found on chromosomes 1, 2 3, 6, 9, 12, X and Y. |
| <b>Molecular Mass</b>   | 57.20 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MAVPPTYADL GKSARDVFTK GYGFGLIKLD LKTKSENGLE FTSSGSANTE<br>TTKVTGSLET KYRWTEYGLT FTEKWNTDNT LGTEITVEDQ LARGLKLTFD<br>SSFSPNTGKK NAKIKTGYKR EHINLGCDMD FDIAGPSIRG ALVLGYEGWL<br>AGYQMNFEA KSRVTQSNFA VGYKTDEFQL HTNVNDGTEF GGSIIYQKVNK<br>KLETAVNLAW TAGNSNTRFG IAAKYQIDPD ACFSKVNNS SLIGLGYTQT<br>LKPGIKLTLS ALLDGKNVNA GGHKLGLGLE FQA                                                                                                                                                                                                                |

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|-----------------------|--------------------------------------------------------------------------|
| <b>Applications</b>   | ELISA; WB-Re; AP; Array                                                  |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | VDAC1 voltage-dependent anion channel 1 [ Homo sapiens (human) ]                                                                                                                                       |
| <b>Official Symbol</b> | VDAC1                                                                                                                                                                                                  |
| <b>Synonyms</b>        | VDAC1; voltage-dependent anion channel 1; PORIN; VDAC-1; voltage-dependent anion-selective channel protein 1; porin 31HL; porin 31HM; plasmalemmal porin; outer mitochondrial membrane protein porin 1 |
| <b>Gene ID</b>         | 7416                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>     | NM_003374                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_003365                                                                                                                                                                                              |
| <b>MIM</b>             | 604492                                                                                                                                                                                                 |
| <b>UniProt ID</b>      | P21796                                                                                                                                                                                                 |

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