

# Recombinant Full Length Human FUCA1 Protein, GST-tagged

**Cat. No.** FUCA1-5133HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Human FUCA1 full-length ORF ( AAH17338, 23 a.a. - 461 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 23-461 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Alpha-L-fucosidase (EC 3.2.1.51) is a lysosomal enzyme involved in the degradation of fucose-containing glycoproteins and glycolipids (Occhiodoro et al., 1989 [PubMed 2803312]). At least 2 separate polymorphic alpha-L-fucosidases are recognized in man: that in tissues, FUCA1, which is deficient in fucosidosis (MIM 230000), and that in plasma, FUCA2 (MIM 136820).[supplied by OMIM                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 74.03 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | <p>           VRR AQPPRRYTPDWPSLDSRPLPAWFDEAKFGVFIHWGVFSVPAWGSEWFWWH<br/>           WQGEGR PQYQRFMRDNYPPGFSYADFGPQFTARFFHPEEWADLFQAAGAKYVVL<br/>           TTKHHEGFTNWPSVSWNWN SKDVGPHRDLVGELGTALRKRNIRYGLYHSLLEWF<br/>           HPLYLLDKKNGFKTQH FVSAKTMP ELYDLVNSYKPDLIWSDGEWECPD TYWNSTNF<br/>           LSWLYNDSPVKDEVVNDRWGQNC SCHHGGY YNCEDKFKPQSLPDHKWEMCTSI<br/>           DKFSWGYRRDMALSDVTEESEI ISELVQTVSLGGNYLLNIGPTKDGLIVPIFQERLLAV<br/>           GKWLSINGEAIYASKPWRVQWEKNTTSVWYTSKGS AVYAIFLHWPENGVLNLESPIT<br/>           TSTTKITMLGIQGD LKWSTDPDKGLFISLPQLPPSAVPAEFAWTIKLTGVK         </p> |

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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                     |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                |
| <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.                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                       |
| <b>Gene Name</b>        | FUCA1 fucosidase, alpha-L- 1, tissue [ Homo sapiens ]                                                                                                 |
| <b>Official Symbol</b>  | FUCA1                                                                                                                                                 |
| <b>Synonyms</b>         | FUCA1; fucosidase, alpha-L- 1, tissue; tissue alpha-L-fucosidase; alpha-L-fucosidase 1; alpha-L-fucosidase I; alpha-L-fucoside fucohydrolase 1; FUCA; |
| <b>Gene ID</b>          | 2517                                                                                                                                                  |
| <b>mRNA Refseq</b>      | NM_000147                                                                                                                                             |
| <b>Protein Refseq</b>   | NP_000138                                                                                                                                             |
| <b>MIM</b>              | 612280                                                                                                                                                |
| <b>UniProt ID</b>       | P04066                                                                                                                                                |

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