

# Recombinant Full Length Human Laminin $\alpha$ 4 Protein, GST-tagged

**Cat. No.** LAMA4-276HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Human LAMA4 full-length ORF ( AAH04241.1, 1 a.a. - 120 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>    | 1 a.a. - 120 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | Laminin subunit $\alpha$ -4 is a protein that in humans is encoded by the LAMA4 gene. Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Laminins are composed of 3 non identical chains: laminin $\alpha$ , $\beta$ and $\gamma$ (formerly A, B1, and B2, respectively) and they form a cruciform structure consisting of 3 short arms, each formed by a different chain, and a long arm composed of all 3 chains. Each laminin chain is a multidomain protein encoded by a distinct gene. Several isoforms of each chain have been described. |
| <b>Form</b>             | Supplied in 50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0, and do not contain any known hazardous ingredient.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 38.94 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                         |                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>      | MALSSAWRSV LPLWLLWSAA CSRAASGDDN AFPFDIEGSS AVGRQDPPET<br>SEPRVALGRL PPAAEVQCPC HCHPAGAPAP PRAVPHSSFS LSPPLSSPQC<br>LESFTWARSV RKLEIKSFPL |
| <b>Purity</b>           | GlutathioneSepharose 4 Fast Flow                                                                                                          |
| <b>Applications</b>     | Enzyme-linkedImmunoabsorbent Assay; Western Blot (Recombinant protein)                                                                    |
| <b>Storage</b>          | Store at -80 centigrade.Aliquot to avoid repeated freezing and thawing.                                                                   |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                           |
| <b>Gene Name</b>        | LAMA4 laminin, alpha 4 [ Homosapiens ]                                                                                                    |
| <b>Official Symbol</b>  | LAMA4                                                                                                                                     |
| <b>Synonyms</b>         | LAMA4;laminin, alpha 4; LAMA3; LAMA4*-1; DKFZp686D23145; Laminin-14 subunit<br>alpha;Laminin-8 subunit alpha; Laminin-9 subunit alpha     |
| <b>Gene ID</b>          | 3910                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_001105206                                                                                                                              |
| <b>Protein Refseq</b>   | NP_001098676                                                                                                                              |
| <b>MIM</b>              | 600133                                                                                                                                    |
| <b>UniProt ID</b>       | Q16363                                                                                                                                    |

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