

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

Cat. No. LAMA4-6953H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human LAMA4full-length ORF ( AAH04241.1, 1 a.a. - 120 a.a.) recombinant protein withGST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	Laminin subunitalpha-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>Molecular Mass</b>	38.94 kDa
<b>Sequence</b>	MALSSAWRSVLPLWLLWSAACSRASGDDNAFPFDIEGSSAVGRQDPPETSEPRV ALGRLPPAAEVQCPCCHPAGAPAPPRAVPHSSFSLSPPLSSPQCLESFTWARSVR KLEIKSFPL
<b>Purity</b>	Glutathione Sepharose 4 Fast Flow

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<b>Buffer</b>	50 mM Tris-HCl, 10mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Format</b>	supplied in 50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0, and do not contain any known hazardous ingredient
<b>Quality Control Testing</b>	12.5% SDS-PAGE stained with Coomassie Blue.
<b>Applications</b>	Enzyme-linked Immunosorbent Assay; Western Blot (Recombinant protein)
<b>Storage</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<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 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
<b>Chromosome</b>	6q21

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**Location****Pathway**

extracellularmatrix structural constituent; receptor binding

**Function**

African trypanosomiasis; Amoebiasis; ECM-receptor interaction; FOXM1 transcription factor network; Focal adhesion; Pathways in cancer; Small cell lung cancer; Toxoplasmosis

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