Laminin Alpha 4 (LAMa4) Recombinant Protein | LAMa4 recombinant protein

Recombinant Laminin Alpha 4 (LAMa4)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA20284	**E Coli**	**Homo sapiens (Human)**	**SDS-Page, Western Blot**

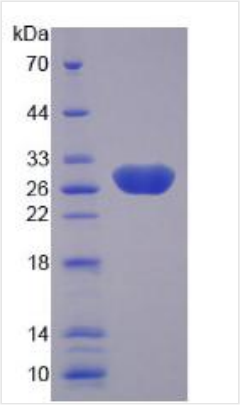
PRODUCT SYNONYMS

Laminin Alpha 4 (LAMa4); Recombinant Laminin Alpha 4 (LAMa4); LAMa4 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>95%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300
Concentration	Original Concentration: 200ug/mL (varies by lot)
Applicable Applications for LAMa4 recombinant protein	Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)
Source	Prokaryotic expression
Residues	Ile832~Lys1039
Tags	N-terminal His-Tag
Tissue Specificity	Lung, Liver, Kidney, Spleen.
Subcellular Location	Secreted, extracellular space, extracellular matrix
Traits	Freeze-dried powder
Predicted isoelectric point	6.0
Predicted Molecular Mass	24.4kDa
Accurate Molecular Mass	29kDa as determined by SDS-PAGE reducing conditions.
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	**Storage:** Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. **Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



SDS-PAGE

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                                IQVSMMFDG QSAVEVHSRT
SMDDLKAFTS LSLYMKPPVK RPELTETADQ FILYLGSKNA KKEYMGLAIK
NDNLVYVYNL GTKDVEIPLD SKPVSSWPAY FSIVKIERVG KHGKVFLTVP
SLSSTAEEKF IKKGEFSGDD SLLDLDPEDT VFYVGGVPSN FKLPTSLNLP
GFVGCLELAT LNNDVISLYN FKHIYNMDPS TSVPCARDK
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Sequence Information

NCBI AND UNIPROT INFORMATION

NCBI GI #	380503843
NCBI GeneID	3910
NCBI Accession #	NP_001098676.2
NCBI GenBank Nucleotide #	NM_001105206.2
UniProt Accession #	Q16363; Q14731; Q14735; Q15335; Q4LE44; Q5SZG8; Q9BTB8; Q9UE18; Q9UJN9
NCBI Official Full Name	laminin subunit alpha-4 isoform 1
NCBI Official Synonym Full Names	laminin, alpha 4
NCBI Official Symbol	LAMA4
NCBI Official Synonym Symbols	LAMA3; CMD1JJ; LAMA4*-1
NCBI Protein Information	laminin subunit alpha-4; laminin alpha 4 chain
UniProt Protein Name	Laminin subunit alpha-4
UniProt Gene Name	**LAMA4**
UniProt Entry Name	LAMA4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/lama4-recombinant-protein-e-coli-positive-control-immunogen-sds-page-wb-western-blot/20284