# Epiligrin (EP) ELISA Kit for Rabbit

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | Epiligrin, ELISA Kit |
| **Full Product Name** | Rabbit Epiligrin ELISA Kit |
| **Product Gene Name** | EP elisa kit |
| **Product Synonym Names** | Rabbit EP ELISA Kit; EP ELISA Kit |
| **Species Reactivity** | Rabbit |
| **Preparation and Storage** | Store all reagents at 2-8 degree C |
| **Molecular Weight** | 366,649 Da |
| **Chromosome Location** | Chromosome: 18; NC_000018.9 (21269562..21535030). Location: 18q11.2 |
| **OMIM** | 226700 |
| **3D Structure** | ModBase 3D Structure for Q16787 |
| **Sample Preparation** | We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team |
| **Product Categories/Family for EP elisa kit** | Signal Transduction |
| **ISO Certification** | Manufactured in an ISO 13485:2016 Certified Laboratory. |
| **Related Product Information for EP elisa kit** | MBS750805 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Epiligrin, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing EP. The ELISA analytical biochemical technique of the MBS750805 kit is based on EP antibody-EP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect EP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, EP. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |
| **Other Notes** | Small volumes of EP elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EP. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 551599 |
| **NCBI GeneID** | 3909 |
| **NCBI Accession #** | AAA59484.1 |
| **UniProt Primary Accession #** | Q16787 |
| **UniProt Secondary Accession #** | Q13679; Q13680; Q6VU67; Q6VU68; Q6VU69; Q76E14; Q96TG0 |
| **UniProt Related Accession #** | Q16787 |
| **NCBI Official Full Name** | epiligrin alpha 3 subunit, partial |

| | |
|---|---|
| **NCBI Official Synonym Full Names** | laminin, alpha 3 |
| **NCBI Official Symbol** | LAMA3 |
| **NCBI Official Synonym Symbols** | E170; LOCS; BM600; LAMNA; lama3a |
| **UniProt Protein Name** | Laminin subunit alpha-3 |
| **UniProt Synonym Protein Names** | Epiligrin 170 kDa subunit; E170; Epiligrin subunit alpha; Kalinin subunit alpha; Laminin-5 subunit alpha; Laminin-6 subunit alpha; Laminin-7 subunit alpha; Nicein subunit alpha |
| **Protein Family** | Laminin |
| **UniProt Gene Name** | LAMA3 |
| **UniProt Synonym Gene Names** | LAMNA; E170 |
| **UniProt Entry Name** | LAMA3_HUMAN |
| **NCBI Protein Information** | laminin subunit alpha-3; BM600 150kD subunit; nicein 150kD subunit; nicein subunit alpha; kalinin 165kD subunit; kalinin subunit alpha; epiligrin subunit alpha; laminin-5 alpha 3 chain; laminin-5 subunit alpha; laminin-6 subunit alpha; laminin-7 subunit alpha; epiligrin 170 kda subunit; epiligrin alpha 3 subunit; laminin, alpha 3 (nicein (150kD), kalinin (165kD), BM600 (150kD), epilegrin) |
| **NCBI Summary for EP** | Laminins are basement membrane components thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components. The protein encoded by this gene is the alpha-3 subunit of laminin 5, which is a complex glycoprotein composed of three subunits (alpha, beta, and gamma). Laminin 5 is thought to be involved in cell adhesion, signal transduction and differentiation of keratinocytes. Mutations in this gene have been identified as the cause of Herlitz type junctional epidermolysis bullosa. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for EP** | LAMA3: Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components. Defects in LAMA3 are a cause of epidermolysis bullosa junctional Herlitz type (H-JEB); also known as junctional epidermolysis bullosa Herlitz-Pearson type. JEB defines a group of blistering skin diseases characterized by tissue separation which occurs within the dermo-epidermal basement membrane. H-JEB is a severe, infantile and lethal form. Death occurs usually within the first six months of life. Occasionally, children survive to teens. H-JEB is marked by bullous lesions at birth and extensive denudation of skin and mucous membranes that may be hemorrhagic. Defects in LAMA3 are the cause of laryngoonychocutaneous syndrome (LOCS). LOCS is an autosomal recessive epithelial disorder confined to the Punjabi Muslim population. The condition is characterized by cutaneous erosions, nail dystrophy and exuberant vascular granulation tissue in certain epithelia, especially conjunctiva and larynx. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Motility/polarity/chemotaxis; Secreted, signal peptide; Secreted<br><br>Chromosomal Location of Human Ortholog: 18q11.2<br><br>Cellular Component: laminin-5 complex; laminin-1 complex; extracellular region; basement membrane<br><br>Molecular Function: structural molecule activity; receptor binding<br><br>Biological Process: regulation of cell adhesion; extracellular matrix disassembly; extracellular matrix organization and biogenesis; epidermis development; hemidesmosome assembly; regulation of embryonic development; cell adhesion; regulation of cell migration<br><br>Disease: Epidermolysis Bullosa, Junctional, Non-herlitz Type; Laryngoonychocutaneous Syndrome; Epidermolysis Bullosa, Junctional, Herlitz Type |
| **Research Articles on EP** | **1.** Results identify the point during neoplastic progression in epithelia when the tumor suppressor p16 and laminin 5 are expressed and suggest that normal epithelia may use the same mechanism to generate non-dividing, motile cells for wound repair. |

| | |
|---|---|
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/ep-rabbit-elisa-kits/epiligrin/750805