



# Anti-Laminin Monoclonal antibody, clone 4D93E8 (DMAB7237MM)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Monoclonal Antibody to Laminin
<b>Antigen Description</b>	Laminins are major proteins in the basal lamina (one of the layers of the basement membrane), a protein network foundation for most cells and organs. The laminins are an important and biologically active part of the basal lamina, influencing cell differentiation, migration, adhesion as well as phenotype and survival. Laminins are trimeric proteins that contain an $\alpha$ -chain, a $\beta$ -chain, and a $\gamma$ -chain, found in five, four, and three genetic variants, respectively. The laminin molecules are named according to their chain composition. Thus, laminin-511 contains $\alpha$ 5, $\beta$ 1, and $\gamma$ 1 chains. The laminins are a family of glycoproteins that are an integral part of the structural scaffolding in almost every tissue of an organism. They are secreted and incorporated into cell-associated extracellular matrices. Laminin is vital for the maintenance and survival of tissues. Defective laminins can cause muscles to form improperly, leading to a form of muscular dystrophy, lethal skin blistering disease (junctional epidermolysis bullosa) and defects of the kidney filter (nephrotic syndrome).
<b>Specificity</b>	Mouse laminin: 100%; Human laminin: 74%
<b>Immunogen</b>	Mouse laminin
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	4D93E8
<b>Affinity Constant</b>	Not determined
<b>Purification</b>	DEAE chromatography; >95% by HPLC and SDS-PAGE

<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA We recommend the following for sandwich ELISA (Capture - Detection): DMAB7237MM - DMAB7238MM
<b>Format</b>	Purified, liquid
<b>Size</b>	250 µg
<b>Buffer</b>	0.015M potassium phosphate buffer, 0.85% NaCl, 0.05% NaN <sub>3</sub> , pH=7.2
<b>Storage</b>	2°C-8°C for 1 year. Store at -20°C for long term.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Lama1 laminin, alpha 1 [ Mus musculus ]</a>
<b>Official Symbol</b>	Lama1
<b>Synonyms</b>	Laminin; Lama1; laminin, alpha 1; Lama; AA408497; laminin subunit alpha-1; S-LAM alpha; laminin A chain; S-laminin subunit alpha; laminin-1 subunit alpha; laminin-3 subunit alpha; Laminin subunit alpha-1; Laminin A chain; Laminin-1 subunit alpha; Laminin-3 subunit alpha; Lama-1
<b>Entrez Gene ID</b>	<a href="#">16772</a>
<b>Protein Refseq</b>	<a href="#">NP_032506</a>
<b>UniProt ID</b>	<a href="#">F8VQ40</a>
<b>Chromosome Location</b>	17 E1.1; 17 38.0 cM
<b>Pathway</b>	Alpha6-Beta4 Integrin Signaling Pathway; Amoebiasis; Axon guidance; Developmental Biology; ECM-receptor interaction; Focal Adhesion; Focal adhesion; Integrin cell surface interactions; L1CAM interactions; Pathways in cancer; Signal Transduction; Small cel
<b>Function</b>	extracellular matrix structural constituent; glycosphingolipid binding; protein binding; receptor binding