



Anti-Laminin Monoclonal antibody, clone 3C22C8 (DMAB7235MM)

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

PRODUCT INFORMATION

Product Overview	Monoclonal Antibody to Laminin
Antigen Description	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 α -chain, a β -chain, and a γ -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).
Specificity	This antibody is specific to mouse laminin. It does not reactive with human laminin.
Immunogen	Mouse laminin
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Mouse
Clone	3C22C8
Affinity Constant	Not determined
Purification	DEAE chromatography; >95% by HPLC and SDS-PAGE

Conjugate	Unconjugated
Applications	EIA
Format	Purified, liquid
Size	250 µg
Buffer	0.015M potassium phosphate buffer, 0.85% NaCl, 0.05% NaN ₃ , pH=7.2
Storage	2°C-8°C for 1 year. Store at -20°C for long term.

GENE INFORMATION

Gene Name	Lama1 laminin, alpha 1 [Mus musculus]
Official Symbol	Lama1
Synonyms	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
Entrez Gene ID	16772
Protein Refseq	NP_032506
UniProt ID	F8VQ40
Chromosome Location	17 E1.1; 17 38.0 cM
Pathway	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
Function	extracellular matrix structural constituent; glycosphingolipid binding; protein binding; receptor binding