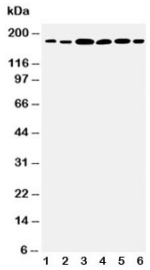
Laminin B2 Antibody / Laminin Gamma 1 Polyclonal Antibody (R30658)

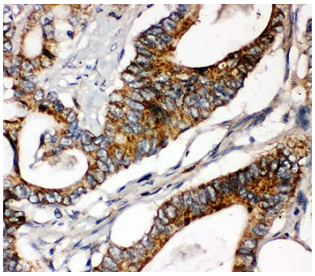
Catalog No.	Formulation	Size
R30658	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P11047
Localization	Membrane, secreted
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 0.5-1ug/ml
Limitations	This Laminin B2 Antibody / Laminin Gamma 1 Polyclonal Antibody is available for research use only.



Laminin B2 Antibody by WB in human and rat samples. Western blot analysis of rat kidney (lane 1), rat lung (lane 2), U87 (lane 3), SMMC-7721 (lane 4), HeLa (lane 5), and SKOV3 (lane 6) lysates using Laminin B2 Antibody. The expected molecular weight of laminin gamma 1 is approximately 174-200 kDa.



Laminin B2 Antibody by IHC in human intestinal carcinoma. Immunohistochemistry of FFPE human intestinal carcinoma tissue using Laminin B2 Antibody to examine laminin gamma 1 immunoreactivity within the tumor tissue.

Description

Laminin B2 Antibody / Laminin Gamma 1 Polyclonal Antibody recognizes laminin gamma 1, an extracellular matrix glycoprotein encoded by the LAMC1 gene. Historically designated laminin B2, this protein was subsequently reclassified as the gamma 1 chain following revisions to laminin nomenclature. Laminin gamma 1 is an essential structural component of basement membranes, where it associates with laminin alpha and beta chains to form heterotrimeric complexes. These extracellular assemblies contribute to tissue organization, mechanical stability, and communication between cells and their surrounding matrix.

Laminins are large multidomain proteins that assemble into heterotrimers containing one alpha, one beta, and one gamma chain. The gamma 1 subunit participates in numerous laminin isoforms, including laminin-111, laminin-211, laminin-411, and laminin-511. The three chains associate through their coiled-coil regions to form a characteristic cross-shaped structure. Different chain combinations influence the distribution and biological properties of laminin complexes, allowing basement membranes to support specialized functions in different tissues.

Laminin gamma 1 contributes to basement membrane assembly through interactions with other extracellular matrix components and cell-surface receptors. Laminin networks cooperate with collagen IV, nidogens, and heparan sulfate proteoglycans to establish the structural framework of basement membranes. These networks provide mechanical support while influencing cell adhesion, migration, polarity, and differentiation. The organization of laminin-containing matrices is particularly important for maintaining epithelial architecture and separating cellular compartments within complex tissues.

Beyond its structural functions, LAMC1 participates in processes associated with tissue development, repair, and cellular signaling. Laminin-rich basement membranes influence epithelial morphogenesis, vascular organization, and the behavior of migrating cells. Changes in laminin expression or extracellular matrix remodeling can alter cellular interactions with the surrounding environment. In cancer research, LAMC1 expression has been investigated in relation to tumor invasion, stromal remodeling, and the organization of basement membranes at tumor boundaries.

The historical Laminin B2 designation remains relevant when interpreting older publications describing basement membrane proteins and laminin chain composition. NSJ Bioreagents offers this Laminin B2 Antibody for investigating extracellular matrix organization, basement membrane integrity, and the biological functions of laminin-containing protein complexes.

Explore our Laminin Gamma 1 Antibody, featuring protein microarray validation data, for additional research tools targeting LAMC1, an essential basement membrane protein involved in extracellular matrix organization, cell adhesion, and tissue integrity.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Laminin B2 Antibody / Laminin Gamma 1 Polyclonal Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 1566-1579 (KKQEAAIMDYNRDI-human) were used as the immunogen for this Laminin gamma 1 / Laminin B2 antibody.

Storage

After reconstitution, the Laminin gamma 1 / Laminin B2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

Laminin gamma 1 antibody, LAMC1 antibody, Laminin B2 chain antibody, Laminin subunit gamma 1 antibody, S-Laminin gamma antibody

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