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**[ Marker Primary Antibody ]**

# Rabbit Anti-Laminin 2 alpha/HRP Conjugated antibody

**Catalog Number: SL8561R-HRP**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Anti-Laminin 2 alpha/HRP |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human Laminin 2 alpha |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Rabbit) |
| **Background:** | background: Laminin, an extracellular protein, is a major component of the basement membrane. It is thought to mediate the attachment, migration, and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components. It is composed of three subunits, alpha, beta, and gamma, which are bound to each other by disulfide bonds into a cross-shaped molecule. This gene encodes the alpha 2 chain, which constitutes one of the subunits of laminin 2 (merosin) and laminin 4 (s-merosin). Mutations in this gene have been identified as the cause of congenital merosin-deficient muscular dystrophy. Two transcript variants encoding different proteins have been found for this gene. [provided by RefSeq, Jul 2008].<br>**Function:** 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 |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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| | components.<br>**Subunit:** Laminin is a complex glycoprotein, consisting of three different polypeptide chains (alpha, beta, gamma), which are bound to each other by disulfide bonds into a cross-shaped molecule comprising one long and three short arms with globules at each end. Alpha-2 is a subunit of laminin-2 (laminin-211 or merosin), laminin-4 (laminin-221 or S-merosin) and laminin-12 (laminin-213). Interacts with FBLN1, FBLN2 and NID2.<br>**Subcellular Location:** Secreted, extracellular space, extracellular matrix, basement membrane. Note=Major component.<br>**Tissue Specificity:** Placenta, striated muscle, peripheral nerve, cardiac muscle, pancreas, lung, spleen, kidney, adrenal gland, skin, testis, meninges, choroid plexus, and some other regions of the brain; not in liver, thymus and bone.<br>DISEASE: Defects in LAMA2 are the cause of merosin-deficient congenital muscular dystrophy type 1A (MDC1A) [MIM:607855]. MDC1A is characterized by difficulty walking, hypotonia, proximal weakness, hyporeflexia, and white matter hypodensity on MRI.<br>**Similarity:** Contains 17 laminin EGF-like domains.<br>Contains 5 laminin G-like domains.<br>Contains 2 laminin IV type A domains.<br>Contains 1 laminin N-terminal domain.<br>**Database links:**<br>**Entrez Gene:** 3908 Human<br>Omim: 156225 Human<br>**SwissProt:** P24043 Human<br>**Unigene:** 200841 Human<br>Important<br>**Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |