LAMC1 Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

<table>
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<th>Applications</th>
<th>Species Cross-Reactivity*</th>
<th>Molecular Wt.</th>
<th>Source</th>
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<td>W, IP</td>
<td>H, M, R</td>
<td>220-250 kDa</td>
<td>Rabbit**</td>
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<tr>
<td>Endogenous</td>
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Endogenous levels of total LAMC1 protein.

Background: Laminins are a family of proteins important for maintaining cellular basement membrane (BM) structure and function. Laminins exist as heterotrimers of alpha (LAMA), beta (LAMB), and gamma (LAMC) chains. LAMC1 (laminin gamma-1) is a ubiquitously expressed gamma chain, and has three distinct functional domain structures. The N-terminal LN domain binds to specific alpha and beta chains to form a unique laminin heterotrimer. The LE domain mediates interactions with nidogens, while the C-terminal coil-coil fragment is necessary for agrin association. Collectively, these interactions are critical for stabilization and function of the BM. Genetic ablation of LAMC1 has demonstrated a critical role for this protein in embryo implantation, lung and kidney development, and neuronal Schwann cell myelination and regeneration, in addition to Trypanosome infection. Upregulation of LAMC1 has also been associated with tumor progression in multiple tumor types, possibly by creating a BM environment that is favorable for cancer cell metastasis and invasion.

Specificity/Sensitivity: LAMC1 antibody recognizes endogenous levels of total LAMC1 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp1365 of human LAMC1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Recommended Antibody Dilutions:
Western blotting 1:1000
Immunoprecipitation 1:50

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Important: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Western blot analysis of extracts from various cell lines using LAMC1 Antibody.

Western blot analysis was performed using Lane 1 is 10% input, lane 2 is Normal Rabbit IgG #2729, and lane 3 is LAMC1 Antibody. Endogenous levels of total LAMC1 protein.

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Background References:

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