iMatrix-511 silk

Product No. AMS.892021 1,050 µg

Background Information
Laminin-511 is well known to bind to the integrin α6β1 which is located on the cell surface. iMatrix-511 is recombinant Laminin511-E8 fragments.

Content
Recombinant Human Laminin511-E8 Fragments

Amount
175 µg / tube (6 tubes)

Concentration
0.5 mg / mL

Form
Liquid solution (solvent: PBS(-))

Product Information
iMatrix-511 is recombinant human Laminin511-E8 fragments expressed by Transgenic silkworm cocoon (Immuno-Biological Laboratories Co., Ltd.).

Storage and Stability
The liquid solution is stable at +2 to +15 °C until the expiration date printed on the label. Protect from light. iMatrix-511 is stable at 4 °C for 2 years from the manufacturing date.

Activity
The dissociation constant of the binding activity with integrin α6β1 is under 10 nM.

Application
iMatrix-511 is able to use as cell culture substrate for various cell types including ES/iPS cells.

Procedure
1) Dilute the solution with sterile PBS(-). Coat dishes with 0.5 µg/cm². * For example, for one well of a 6-well plate (9.6 cm² /well), add 9.6 µL of iMatrix-511 (4.8 µg) in 1.98 mL of PBS(-).
Add 2 mL of diluted iMatrix-511 solution to the well.
2) Incubate for 1 h at 37 °C, 3 h at room temperature, or over night at 4 °C.
3) Remove remaining fluid from the coated surface. No rinse is needed.
4) Immediately plate the cells at desired density. * Don't allow the plate to dry.
* Briefly spin down all liquid in the tube before use.
* Avoid repeated freeze-thaw cycles.

References
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Sasaki K et al. Nature 531, 367-80, 2016
Matsuno K et al. Differentiation 2016.04.002
Nishimura K et al. Stem Cell Reports 6 (4) 511–524, 2016
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Regulatory Disclaimer
For life science research only. Not for use in diagnostic procedures.

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