

Code No. 10361

**Anti-Mouse
LEC26 (LA102) Rat IgG MoAb**Volume : 100 µg

Introduction : Recent years, LYVE-1 (1999, Banerji *et al.*), podoplanin (1999, Breiteneder-Geleff *et al.*) and Prox-1 (1999, Wile & Oliver) were found one after another as specific antigens of lymphatic endothelium and the approach to lymphatic study has progressed dramatically. However, it has been reported that these antigens are not expressed in only lymphatic endothelium according to tissues or clinical conditions, but antibodies against these antigens also react with other vessels especially vascular endothelium.

This antibody is generated with an adjuvant-induced benignant lymphangioma by "rapid differential immunization technique" (a more efficient immunization method for antigens which are weak in antigenicity such as one on the lymphatic endothelium.) It is an antibody that is specific to lymphatic vessels but never reacts with vascular endothelium. While, it reacts with some blood cells.

Antigen : Mouse lymphangioma

Source : Rat-Mouse hybridoma
(DA rat lympho node cells × X63 - Ag 8.653, supernatant)

Clone : LA102 **Subclass** : IgG_{2b}, K

Purification : Affinity purified with antigen

Form : Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN₃

How to use : 1.0 mL deionized water will be added to the product, then its concentration comes to 100 µg/mL

Stability : Lyophilized product, 5 years at 2 - 8 °C
: Solution, 2 years at -20 °C

Application : This antibody can be used for immunohistochemistry by several immunostaining techniques with fresh frozen sections (acetone fixation for 10 min. at RT or 4 % paraformaldehyde fixation within 10 min. at RT) . The optimal concentration is 0.1 - 1 µg/mL, however, the concentration should be optimized by each laboratory.

Specificity : Reacts to about 26 kDa protein antigen on the lymphatic endothelial membrane of mouse.
Not react with blood vascular endothelium, but cross-reacts with some lymphatic cells.
: Not cross-react with human, rat or guinea pig.

Reference : 1. Ezaki T, Kuwahara K, Morikawa S, Shimizu K, Sakaguchi N, Matsushima K, Matsuno K. Production of two novel monoclonal antibodies that distinguish mouse lymphatic and blood vascular endothelial cells. *Anat Embryol (Berl)*. 2006 Oct;211(5):379-93.

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