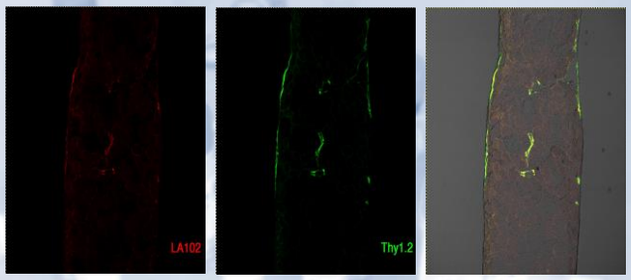

Double immunostaining of the diaphragm in C57BL/6 mouse with LA102 (Alexa546: red) and FITC (green)-conjugated Thy1.2 (LEL). The immunofluorescent merged image shows the co-localization of the two antigens as reported by Jurisic et al. (2010).

The experiments were performed by the research group of Prof. T. Ezaki, TWMU, Tokyo, Japan.

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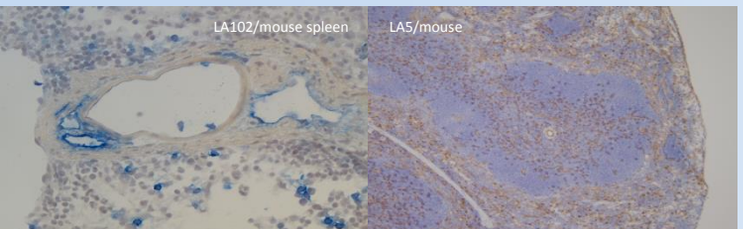

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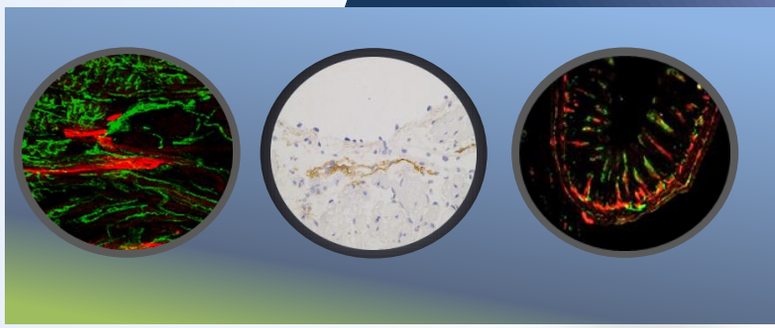
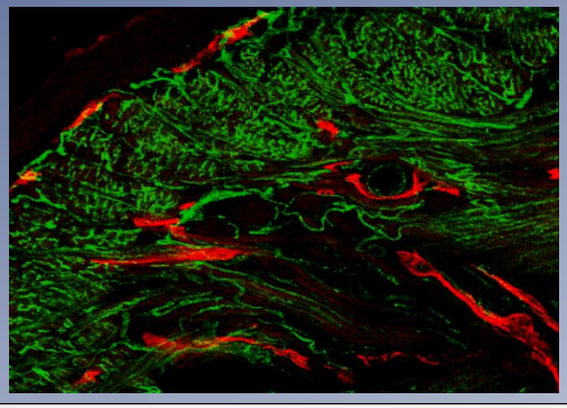


LEC26 / BEC12

Antibodies

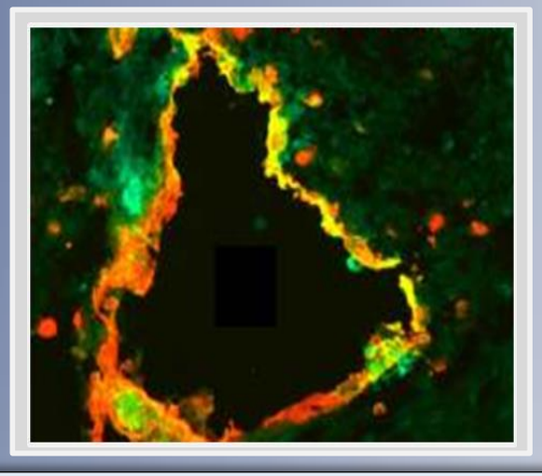
Rat Anti-Mouse
LEC26 #LA102

Two novel rat monoclonal antibodies (LA102 / LA5) were generated to identify mouse lymphatic and blood vessels, respectively. LA102 specifically reacted with mouse lymphatic vessels except the thoracic duct and the marginal sinus of lymph nodes, but not with any blood vessels. LA102 recognized a protein of 25-27 kDa. The antigens recognized by LA102 were localized on both luminal and abluminal EC membranes of each vessel type. Interestingly, LA102 immunoreactivity was strongly expressed on pinocytic or transport vesicle membrane in the cytoplasm of lymphatic endothelium. Besides ECs, both antibodies also recognized some types of lymphoid cells. Since, the LA102 antigen molecule is expressed on some lymphoid cells; it may play important roles in the migration of lymphoid cells and in some transport mechanisms through lymphatic endothelial cells.

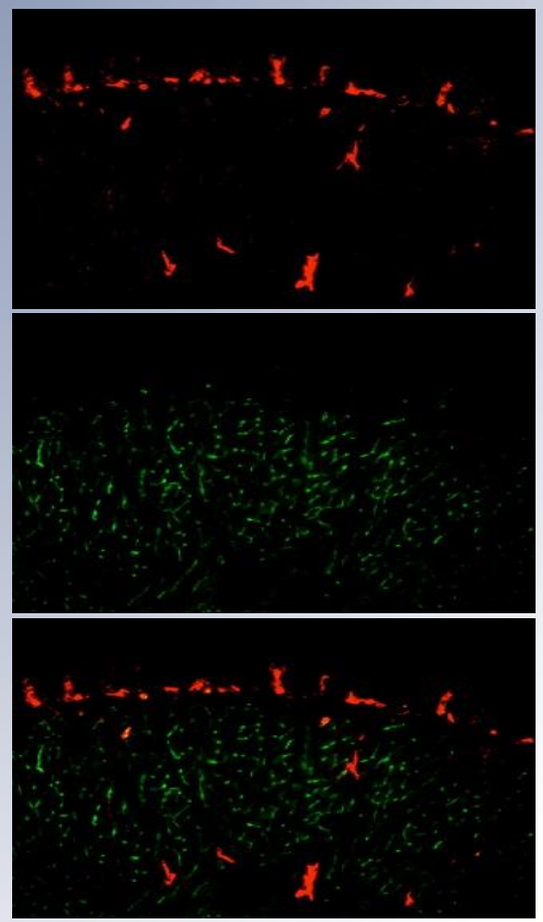


Double immunofluorescent confocal scanning image of tissue from mouse with LEC26 (red) and L. esculentum (tomato) lectin (green). Lymphatic capillaries and collecting lymphatic vessels in the tongue (a) are clearly seen as an independent vascular system. Scale bar: 300 µm.

Immunofluorescence staining of BEC12/LA5 (green) [**Cat# 103-M154**] and LEC26/LA102 (red) [**Cat# 103-M152**] in the tongue from C57BL/6 female mice. Fresh frozen cryosections (10 micron thick) were fixed with acetone for 10 min at RT and then reacted directly with Biotin-conjugated LA102 followed by streptoavidin-Cy3 (red) and Alexa488 labeled LA5 (green) for double staining. Upper panel: LA102; Middle panel: LA5; Lower panel: Merged LA102/LA5,

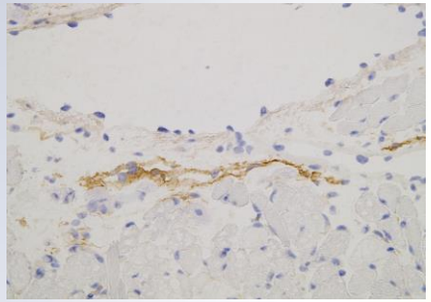


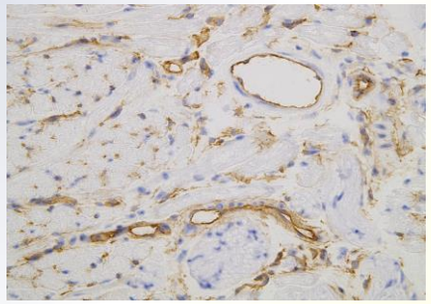
Jugular lymph sacs of murine embryos. Lyve-1 double staining of cryo-section of ED 13.5 mouse. Lyve-1 (red) and LA102 (green).



Blood vascular and lymphatic systems both play essential roles in the local tissue microcirculation. The lymphatic system has not received as much attention as the blood system probably due to a lack of specific markers. The important physiological and pathophysiological roles of the lymphatic vascular system for fluid homeostasis, immune surveillance, tumor metastasis and inflammation justify intensive studies of this hardly visible portion of the vascular system.

For proper understanding of lymphatic function, it is very important to discriminate lymphatic from blood vessels in any tissue and to characterize lymphatic endothelial cells in both physiological and pathological conditions. The availability of these monoclonal antibodies would contribute greatly to immune histochemical identification of lymphatic vessels particularly in mice, and also to understand the molecular basis of their special functions.





LA102 reacts with mouse lymphatic vessels except the thoracic duct and the marginal sinus of lymph nodes, but not with any blood vessels. The antigen recognized by LA102 (about 26 kDa) was localized on both luminal and abluminal lymphatic membranes. Besides lymphatics, some lymphoid cells are also recognized.

LA5 reacts with mouse blood vessels with a few exceptions (large vessels like aorta), but not with any lymphatic vessels. LA5 recognized a protein of around 12 kDa on blood vessel endothelial cells. Like LA102, some lymphoid cells are also recognized by LA5.

Rat Anti-Mouse
BEC12 #LA5