IBL Data Sheet

Code No. 10363

Anti-Mouse
BEC12 (LA5) Mouse IgG MoAb

Volume : 100 µg

Introduction : Recent years, specific antigens of vascular endothelium have been found one after another, and they contribute to progress of vascular biology.
This antibody, being unlike any other prior antibodies, reacts especially with arterial microcirculating system including small arteries and blood capillaries, and also reacts with some small venous endothelial cells. This is an unprecedented type (site-specific) of anti vascular endothelium antibody, generated with an adjuvant-induced benignant lymphangioma (intra-abdominal tumor) by “rapid differential immunization technique” (a more efficient immunization method for antigens which are weak in antigenicity.) It doesn’t react with endothelial cells of lymph vessels but reacts with some blood cells.

Antigen : Mouse lymphangioma

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

Clone : LA5 **Subclass** : IgG_{2a}, κ

Purification : Affinity purified with antigen

Form : Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN_3

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

Specificity : Reacts to about 12 kDa protein antigen on the blood vascular endothelial membrane of mouse.
Not cross-react with endothelial cells of lymph vessels or large-medium-sized arteries and veins, 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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