

Code No. 10078

**Anti-Rat
Hepatic Sinusoidal Endothelial Cells (SE-1) Mouse IgG MoAb**Volume : 100 µg

Introduction : Among the vascular endothelial cells, hepatic sinusoidal endothelial (HSE) cells are morphologically unique because they have open fenestrations in their cytoplasm and lack basal lamina. This unique structure is assumed to facilitate the exchange and transport of various substances between blood and hepatocytes through the space of Disse. It has been suggested that the formation of this structure is regulated by hepatocyte-related soluble factors or by the extracellular matrix.

The antibody was observed no cross-reactivity with other types of endothelial cells or non-endothelial cells. By immunoelectron microscopy, the antigen recognized by the antibody was localized to the membrane surface of HSE. Immunoblot analysis revealed that the antibody recognized a single 45 kDa band. The antibody may be a useful marker to study the role of HSE in various pathophysiological conditions of the liver.

Antigen : Rat Hepatic Sinusoidal Endothelial Cells**Source** : Mouse-Mouse hybridoma
(X63 – Ag 8.653 × BALB/c mouse spleen cells)**Clone** : SE-1 **Subclass** : IgG_{2a}**Purification** : Affinity purified with Protein A**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 with neutral buffered formalin fixated (perfusion fixation is recommended) paraffin embedded tissues after proteinase K treatment or with acetone fixed frozen sections, in several techniques such as Avidin Biotin Complex (ABC) Method. The optimal dilution is 1 - 5 µg/mL, however, the dilution rate should be optimized by each laboratories.
: This antibody can be used for western blotting in concentration of 1 - 5 µg/mL

Reference : 1. Ohmura T, Enomoto K, Satoh H, Sawada N, Mori M. Establishment of a novel monoclonal antibody, SE-1, which specifically reacts with rat hepatic sinusoidal endothelial cells. *J Histochem Cytochem.* 1993 Aug;41(8):1253-7.
2. Tokairin T, Nishikawa Y, Doi Y, Watanabe H, Yoshioka T, Su M, Omori Y, Enomoto K. A highly specific isolation of rat sinusoidal endothelial cells by the immunomagnetic bead method using SE-1 monoclonal antibody. *J Hepatol.* 2002 Jun;36(6):725-33.

For research use only, not for use in diagnostic procedures