

Monoclonal antibody against human CD147

Product Nos. ADG5091 and ADG5091L

Description

CD147 also known as EMMPRIN (extracellular matrix metalloproteinase inducer) or TCSF (tumour cell-derived collagenase-stimulatory factor) is an ubiquitously expressed cell surface protein with multiple glycosylated forms. The highest level of CD147 expression is on metabolically active cells, such as lymphoblasts, inflammatory cells, brown adipocytes and malignant tumour cells. CD147 has multiple functions, including facilitating of cell surface expression of monocarboxylate transporter proteins and extracellular matrix metalloproteinases, regulation of integrin functions, it plays roles in cell development and activation, fetal development or retinal function.

Properties

The monoclonal antibody ADG5091/L (clone HIM6) is a murine monoclonal antibody, subclass IgG₁. The antibody has been purified using protein-G affinity chromatography, Purity > 95% (by SDS-PAGE).

The antibody recognizes a 50-60 kDa type I transmembrane glycoprotein named basigin or neurothelin which is a blood-brain barrier-specific molecule. CD147 is primarily expressed on all leukocytes, red blood cells, platelets and endothelial cells; it is not expressed by resting lymphocytes.

Presentation

Vial containing 100 µg /100 µl (ADG5091) or 300 µg/300 µl (ADG5091L) of purified antibody in PBS containing 0.09 % sodium azide (pH 7.2). The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

Storage and Stability

Store at 4 °C. For long-term storage aliquot and store at -20°. It is recommended to avoid freeze-thaw cycles. The reagent is stable until the expiry date stated on the vial label.

Applications

Flow cytometry
Immunohistochemistry (acetone-fixed frozen sections)

References

*Leucocyte Typing VI. Tadamitsu L et al. (Eds.), White Cell Differentiation Antigens, Garland Publishing New York (1997).

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