

Monoclonal antibody against human CD147

Product Nos. ADG5086 and ADG5086L

Description

CD147 (basigin, neurothelin, OX-47, 5A11, CE9, M6) 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 ADG5086/L (clone MEM-M6/1) is a murine monoclonal antibody, subclass IgG₁. The antibody has been purified from ascites using protein-A affinity chromatography, Purity > 95% (by SDS-PAGE).

The antibody recognizes an epitope in the N-terminal Ig domain (D1) of CD147 (Neurothelin), a 50-60 kDa type I transmembrane glycoprotein primarily expressed on all leukocytes, red blood cells, platelets and endothelial cells; it is not expressed by resting lymphocytes. The antibody MEM-M6/1 is a high-affinity antibody capable of binding to unstimulated peripheral blood T cells.

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Presentation

Vial containing 100 µg /100 µl (ADG5086) or 300 µg/300 µl (ADG5086L) 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

Immunoprecipitation

Western Blotting: non reducing conditions

References

- 1) Kirk P et al., EMBO J. 2000 Aug 1;19(15):3896-904.
- 2) Wilson MC et al., J Biol Chem. 2005 Jul 22;280(29):27213-21.
- 3) Xu D, Hemler ME: Mol Cell Proteomics. 2005 Aug;4(8):1061-71.
- 4) Iacono KT et al., Exp Mol Pathol. 2007 Dec;83(3):283-95.
- 5) Ruiz S et al., J Biol Chem. 2008 Feb 29;283(9):5554-66.
- 6) Melchior A et al., Exp Cell Res. 2008 Feb 1;314(3):616-28.
- 7) Schmidt R et al., Circ Res. 2008 Feb 15;102(3):302-9.

Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

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