

Monoclonal antibody against human CD147 APC conjugated

Product Nos. ADG5089 and ADG5089L

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 ADG5089/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.

Conjugation

The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

Hinweis/Note:

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

The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

Presentation

Vial containing 500 µl (ADG5089) or 2 ml (ADG5089L) of purified antibody in PBS containing 1% BSA and 0.09% sodium azide (pH 7.2). The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

Storage and Stability

Store the antibody at 4°C. Avoid prolonged exposure to light. The reagent is stable until the expiry date stated on the vial label.

Applications

Flow Cytometry

References

- 1) Kirk P et al., EMBO J. 2000 Aug 1;19(15):3896-904.
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- 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.

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