

# anti-human CD147

## Monoclonal Antibody MEM-M6/1 to CD147 (Human)

Cat-No: **21271471**

100 µg in 100 µl

**Clone:** MEM-M6/1

**Specificity:** The antibody MEM-M6/1 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.

**Isotype subclass:** Mouse IgG1

**Form:** Purified from ascites by protein-A affinity chromatography.

**Purity:** > 95% (by SDS-PAGE)

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.2).

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

**Application:** Flow Cytometry  
Immunoprecipitation  
Western Blotting: non reducing conditions

### References:

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

**Background:** **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.

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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Gladiolenweg 2; 26169 Friesoythe; Germany  
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)  
[www.immunotools.com](http://www.immunotools.com)