

# anti-human CD147

## Monoclonal Antibody HIM6 to CD147 (Human)

Cat-No: **21811471**

100 µg in 100 µl

**Clone:** HIM6

**Specificity:** The antibody HIM6 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.

**Isotype subclass:** Mouse IgG1

**Form:** Purified by protein G affinity chromatography

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

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS with 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  
Immunohistochemistry on acetone-fixed frozen sections

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

**Background:** **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.

**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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