Mouse Anti-Human CD107b

Cat. No. Format Size
9840-01 Purified (UNLB) 0.1 mg
9840-02 Fluorescein (FITC) 100 tests
9840-02S Fluorescein (FITC) 25 tests
9840-08 Biotin (BIOT) 100 tests
9840-09 R-phycocerythrin (PE) 100 tests
9840-09S R-phycocerythrin (PE) 25 tests
9840-13 Spectral Red® (SPRD) 100 tests
9840-26 Pacific Blue™ (PACBLU) 100 tests
9840-27 Alexa Fluor® 700 (AF700) 100 tests
9840-30 Alexa Fluor® 488 (AF488) 100 tests
9840-31 Alexa Fluor® 647 (AF647) 100 tests

Overview

Clone H4B4
Isotype Mouse (BALB/c) IgG1κ
Immunogen Human adherent peripheral blood cells
Specificity Human/Rhesus/African Green Monkey CD107b; Mr 100-120 kDa
Alternate Name(s) LAMP-2, lysosome-associated membrane protein 2
Workshop V P007; VI PR-64

Description

CD107b, also known as lysosomal-associated membrane protein 2 (LAMP-2), is a heavily glycosylated type I transmembrane protein that constitutes the major sialoglycoproteins on lysosomal membranes. It is a ligand for galaptin, an S-type lectin present in extracellular matrix, through its recognition of acetyla ctosamine oligosaccharide chains and is a ligand for E-selectin-mediated cell adhesion. CD107b is expressed in lysosomal/endosomal membranes and on the surface of activated platelets and some tumor cell lines including U937 and KG1a. LAMP-2 may function in protecting the inner surface of the lysosomal membrane by forming a barrier to lysosomal hydrolases. The upregulation of both CD107a and CD107b on the surface of tumor cell lines has been associated with their enhanced metastatic potential where they may increase adhesion to extracellular matrix and endothelium.

Applications

FC – Quality tested 1,15,16
IHC-FS – Reported in literature 2,3
IHC-PS – Reported in literature 4,5
ICC – Reported in literature 6-9,11,17-19
EM – Reported in literature 1
IP – Reported in literature 1
WB – Reported in literature 9-14
Purification – Reported in literature 1

Working Dilutions

Flow Cytometry Purified (UNLB) antibody ≤ 1 µg/10^6 cells
FITC, BIOT, PE, SPRD, PACBLU, AF488, AF647, and AF700
conjugates 10 µL/10^6 cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. **No preservatives or amine-containing buffer salts added.** Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN3. Store at 2-8°C.
- The R-phycocerythrin (PE) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), Alexa Fluor® 700 (AF700), and Pacific Blue™ (PACBLU) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN3. Store at 2-8°C. **Do not freeze!**
- Protect fluochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

5. Sarafian VS, Dikov DI. LAMPs and ABH histo-blood group antigens in granulation tissue. APMIS. 2007;115:701-6. (IHC-PS)