

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse LAMP1/CD107a in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human LAMP1/CD107a is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 747203
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse LAMP1/CD107a Leu25-Asn370 Accession # P11438
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

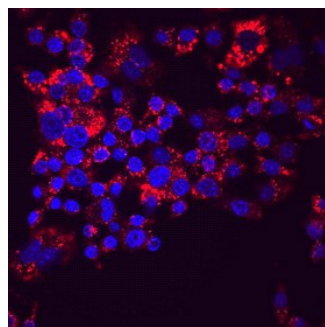
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



LAMP1/CD107a in RAW 264.7 Mouse Cell Line. LAMP1/CD107a was detected in immersion fixed RAW 264.7 mouse monocyte/macrophage cell line using Rat Anti-Mouse LAMP1/CD107a Monoclonal Antibody (Catalog # MAB4320) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

LAMP1 (lysosome-associated membrane glycoprotein 1; also P2B and CD107a) is a 120 kDa member of the LAMP family of proteins. It is a highly glycosylated type I transmembrane protein whose N-terminus projects either extracellularly or into the lumen of lysosomes. LAMP1 may protect lysosomal membranes from enzymatic attack or mediate fusion of phagosomes with lysosomes. Mature mouse LAMP1 is 382 amino acids (aa) in length. It contains a 346 aa luminal domain (aa 25-370) and a 12 aa cytoplasmic region. Over aa 25-370, mouse LAMP1 shares 82% and 66% aa identity with rat and human LAMP1, respectively.