

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
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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