

Emission Wavelength: 553 nm

Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide

Formulation

Human LAMP-2/CD107b Alexa Fluor® 532-conjugated

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF6228X 100 ua

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human LAMP2/CD107b in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human LAMP1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human LAMP2/CD107b Leu29-Phe375 Accession # P13473
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm

*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.			
CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.		
Knockout Validated	Optimal dilution of this antibody should be experimentally determined.		
Western Blot	Optimal dilution of this antibody should be experimentally determined.		
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.		
Intracellular Staining by Flow Cytometry	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

Lysosomal associated membrane protein 2 (LAMP2), also known as CD107b and LGP110, is an approximately 110 kDa transmembrane glycoprotein that is a major component of lysosomal membranes (1). Mature human LAMP2 consists of a 347 amino acid (aa) intralumenal domain, a 24 aa transmembrane segment, and a 35 aa cytoplasmic tail (2). Its lumenal domain is organized into two heavily N-glycosylated regions separated by a Ser/Pro-rich linker that carries a minor amount of O-linked glycosylation (2, 3). Alternate splicing generates a human LAMP2 isoform (LAMP2B) with a substituted juxtamembrane lumenal region, transmembrane segment, and cytoplasmic tail (4). Within the lumenal domain, human LAMP2 shares approximately 64% aa sequence identity with mouse and rat LAMP2. LAMP2 itself is subject to lysosomal degradation following cleavage of its lumenal domain (5). It mediates the lysosomal uptake of the chaperone HSC73 in complex with cargo proteins and is required for the lysosomal destruction of autophagic vacuoles (6, 7). In cytotoxic T cells and mast cells, LAMP2 is expressed in the membranes of intracellular granules that contain effector molecules such as perforin, granzymes, eicosanoids, and histamine (8-10). Up-regulated LAMP2 at the plasma membrane serves as an indicator of cell activation of CD8⁺ T cells, mast cells, monocytes, and platelets (9-12). LAMP2 is a native ligand for lectins Galectin-1 and Galectin-3 (13-15).

PRODUCT SPECIFIC NOTICES

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