

Anti-Hu CD107a Purified Azide Free LAMP1 Monoclonal Antibody

Catalog Number: M00780-3

About LAMP1

CD107a (lysosome-associated membrane protein-1, LAMP-1), together with LAMP-2, is a major constituent of lysosomal membrane, 1-2% of total CD107a is found also on the plasma membrane. The LAMP proteins are involved in lysosome biogenesis and are required for fusion of lysosomes with phagosomes. Increased CD107a immunoreactivity is observed in neurones, and in glial cells surrounding senile plaques in Alzheimers disease cases and is localized mainly in medullary epithelial cells, single macrophages and lymphocytes in acute thymic involution. CD107a is a good marker of mast cell activation.

Overview

Product Name	Anti-Hu CD107a Purified Azide Free LAMP1 Monoclonal Antibody
Reactive Species	Human, Mouse, Primate
Description	Boster Bio Anti-Hu CD107a Purified Azide Free LAMP1 Monoclonal Antibody (Catalog# M00780-3). Tested in Flow Cytometry, WB, IHC-P, IHC-F, ICC application(s). This antibody reacts with Human, Primate, Mouse.
Application	Flow Cytometry, IHC-P, IHC-F, ICC, WB
Clonality	Monoclonal H4A3
Formulation	Phosphate buffered saline (PBS), pH 7.4, azide-free
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P11279

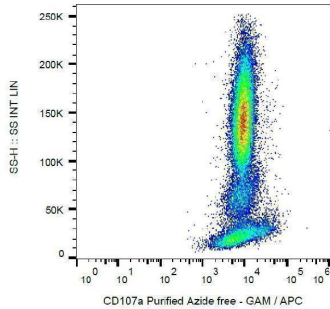
Technical Details

Immunogen	Human PBMC. The mouse monoclonal antibody H4A3 recognizes an extracellular/luminal epitope of CD107a, an approximately 100-120 kDa glycoprotein expressed mainly on lysosomal, but also on the plasma membrane.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1 kappa
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Western blotting: 1 ug/ml.

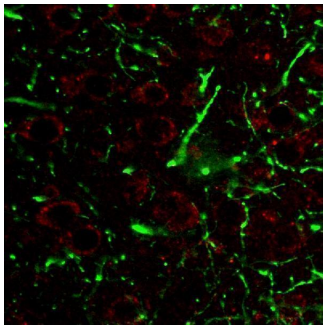
Immunohistochemistry: 2-8 ug/ml.

Flow cytometry: Intracellular and extracellular staining; recommended dilution: 1-12 µg/ml.

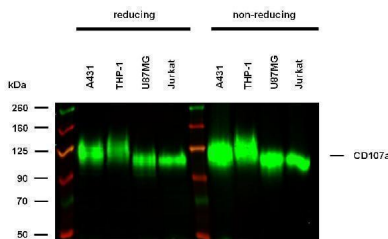
Anti-Hu CD107a Purified Azide Free LAMP1 Monoclonal Antibody (M00780-3) Images



Flow cytometry analysis (intracellular staining) of human peripheral blood cells with anti-CD107a (H4A3) azide free, GAM-APC.



Immunohistochemistry staining of CD107a (red) in tissue sections of murine brain expressing GFP in some of its neurons (green). Mouse monoclonal antibody H4A3 (anti-CD107a) was detected with goat anti-mouse IgG1 conjugated with Alexa Fluor 555.



Anti-Hu CD107a Purified (clone H4A3) works in WB application under reducing and non-reducing conditions. Western blotting analysis was performed on whole cell extracts (RIPA lysis buffer) of A431, THP-1, U87MG, and Jurkat cell lines, mixed and heated (100°C, 5 min) with reducing and non-reducing SDS-loading buffer. Samples were resolved using 7% SDS-PAGE gel. Nitrocellulose membrane blot was probed with mouse IgG1 monoclonal antibody H4A3 (1 µg/ml), followed by IRDye 800CW Goat-anti-Mouse IgG (green). Multiplex fluorescent Western blot detection was performed. CD107a molecules were detected at 120 kDa in all tested cell lines under both reducing and non-reducing conditions.

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