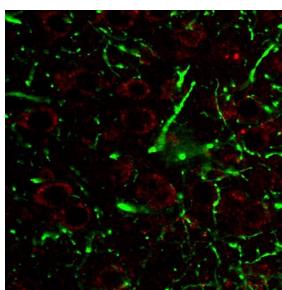
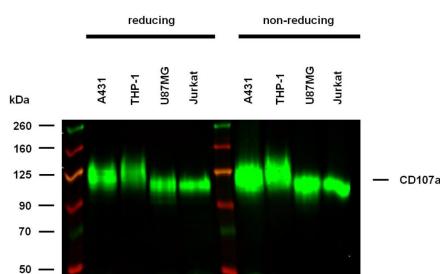


Cat. No:	MAB-94450
Conjugate:	Unconjugated
Size:	100 ug
Clone:	H4A3
Concentration:	1mg/ml
Host:	Mouse
Isotype:	IgG1 kappa
Immunogen:	Human PBMC
Reactivity:	Human, Mouse
Applications:	Western blotting: Recommended dilution: 1 μ g/ml. Immunohistochemistry: Recommended dilution: 2-8 μ g/ml. Flow cytometry: Intracellular and extracellular staining; recommended dilution: 1-12 μ g/ml.
Molecular Weight:	100-120kDa
Purification:	Purified
Synonyms:	LAMP-1, LAMPA
Background:	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.
Form:	Liquid
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Storage:	Store at 2-8°C. Do not freeze.

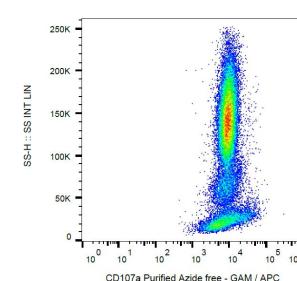


Immunohistochemistry staining of CD107a (red) in tissue sections of murine brain expressing GFP in some of its neurons (green). Mouse monoclonal antibody H4A3 (anti-CD107a) was detected with goat anti-mouse IgG1 conjugated with Alexa Fluor 555.



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.



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

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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