

Datasheet: MCA4707T

Description:	RAT ANTI MOUSE CD107a
Specificity:	CD107a
Other names:	LAMP-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	1D4B
Isotype:	IgG2a
Quantity:	25 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/10 - 1/20
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 0.5mg/ml

Concentrations

Immunogen Mouse 3T3 embryonic fibroblastoid cells.

External Database Links

UniProt:

[P11438](#) [Related reagents](#)

Entrez Gene:

[16783](#) Lamp1 [Related reagents](#)

Synonyms Lamp-1

RRID AB_2134482

Fusion Partners Spleen cells from immunized Balb/c mice were fused with cells of the non-secreting murine P3-X63Ag8 myeloma.

Specificity **Rat anti Mouse CD107a antibody, clone 1D4B** recognises murine CD107a, otherwise known as Lysosome-associated membrane glycoprotein 1 or LAMP-1. CD107a is a glycoprotein responsible for presenting carbohydrate ligands to selectins. It may also play a role in tumour metastasis. It is expressed ubiquitously, with higher levels in spleen, liver and kidney. CD107a may be used as a marker for lysosomal storage disorders.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Andrejewski, N. *et al.* (1999) Normal lysosomal morphology and function in LAMP-1-deficient mice. [J Biol Chem. 274 \(18\): 12692-701.](#)
2. Winder, A.J. *et al.* (1993) The mouse brown (b) locus protein has dopachrome tautomerase activity and is located in lysosomes in transfected fibroblasts. [J Cell Sci. 106 \(Pt 1\): 153-66.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@800
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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