

Datasheet: MCA1556A488T

Description:	MOUSE ANTI HUMAN CD10:Alexa Fluor® 488
Specificity:	CD10
Other names:	CALLA
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	SN5c
Isotype:	lgG1
Quantity:	25 TESTS/0.25ml

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	•			Neat - 1/10

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	Human		
Product Form	Purified IgG conjugate	ed to Alexa Fluor® 48	8 - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	Alexa Fluor®488	495	519
Preparation Buffer Solution	Purified IgG prepared supernatant Phosphate buffered sa		raphy on Protein G
Preservative Stabilisers	0.09% sodium azide (l 1% bovine serum albu	0,	
Approx. Protein Concentrations	IgG concentration 0.09	5 mg/ml	

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Partially purified cell membrane antigens from fresh leukemia cells

External Database Links

UniProt:

P08473 Related reagents

Entrez Gene:

4311 MME Related reagents

Synonyms

EPN

RRID

AB_2235511

Fusion Partners

Spleen cells from immunized BALB/c mice were fused with cells of the mouse PS/NS1 /1-Ag4-1 myeloma cell line

Specificity

Mouse anti Human CD10 antibody, clone SN5c recognizes human neprilysin, also known as CD10, atriopeptidase, enkephalinase, neutral endopeptidase 24.11, skin fibroblast elastase or common acute lymphocytic leukemia antigen (CALLA). CD10 is a 749 aminoacid, ~100 kDa single pass type II transmembrane glycoprotein expressed by acute lymphoblastic leukaemia cells and by peripheral blood granulocytes.

Defects in the MME gene encoding CD10 can lead to the development of the peripheral nervous system disorder, Charcot-Marie-Tooth disease 2T (CMY2T), an axonal form of Marie-Charcot-Tooth disease characterized by either dominantly inherited primary peripheral demyelinating neuropathies, designated CMT1, or primary peripheral axonal neuropathies showing axonal degeneration in the absence of any obvious myelin alteration (CMT2).

Flow Cytometry

Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl

References

- 1. Biddle, W.C. *et al.* (1989) *In vitro* and *in vivo* cytotoxic activity of anti-human leukemia monoclonal antibodies SN5c and SN6 daunorubicin conjugates. <u>Leuk Res. 13 (8):</u> 699-707.
- 2. Riemann, D. *et al.* (2001) Caveolae/lipid rafts in fibroblast-like synoviocytes: ectopeptidase-rich membrane microdomains. Biochem J. 354 (Pt 1): 47-55.
- 3. Diaz-Romero, J. *et al.* (2008) Immunophenotypic changes of human articular chondrocytes during monolayer culture reflect *bona fide* dedifferentiation rather than amplification of progenitor cells. J Cell Physiol. 214: 75-83.
- 4. Pilling, D. *et al.* (2009) Identification of markers that distinguish monocyte-derived fibrocytes from monocytes, macrophages, and fibroblasts. PLoS One. 4 (10): e7475.
- 5. Manini, I. *et al.* (2020) Heterogeneity Matters: Different Regions of Glioblastoma Are Characterized by Distinctive Tumor-Supporting Pathways. <u>Cancers (Basel). 12 (10)Oct 13 [Epub ahead of print].</u>
- 6. Glynn, E. & Fromm, J.R. (2020) Immunophenotypic Characterization and Purification of Neoplastic Cells from Lymph Nodes Involved by T-Cell/Histiocyte-rich Large B-cell Lymphoma by Flow Cytometry and Flow Cytometric Cell Sorting. Cytometry B Clin Cytom. 98 (1): 88-98.

- 7. Caponnetto, F. et al. (2020) Human Adipose-Derived Stem Cells in Madelung's Disease: Morphological and Functional Characterization. Cells. 10 (1): 44.
- 8. Kirolos, S.A. and Gomer, R.H. (2022) The extracellular sialidase NEU3 induces neutrophil priming bioRxiv. 24 Feb [Epub ahead of print].

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1556A488T 10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 488 (MCA928A488)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

America

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M410069:221024'

Printed on 15 Apr 2025