

Datasheet: MCA1556SBV475

## **BATCH NUMBER 100005786**

Description:	MOUSE ANTI HUMAN CD10:StarBright Violet 475
Specificity:	CD10
Other names:	CALLA
Format:	StarBright Violet 475
Product Type:	Monoclonal Antibody
Clone:	SN5c
Isotype:	lgG1
Quantity:	100 TESTS/0.5ml

# **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat

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	Purified IgG conjugated to StarBright Violet 475 - liquid				
lax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	StarBright Violet 475	405	479			
reparation	Purified IgG prepared by affinity chromatography on Protein A from tissue c supernatant					
fer Solution	Phosphate buffered s	aline				
servative	0.09% Sodium Azide	(NaN <sub>3</sub> )				
abilisers	1% Bovine Serum Alb	1% Bovine Serum Albumin				
	0.1% Pluronic F68					
	0.1% PEG 3350					

## Immunogen

Partially purified cell membrane antigens from fresh leukemia cells

## External Database Links

#### **UniProt:**

P08473 Related reagents

#### **Entrez Gene:**

4311 MME Related reagents

#### **Synonyms**

#### **EPN**

#### **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 5ul of the suggested working dilution to label  $10^6$  cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

## 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. <u>J Cell Physiol.</u> 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** Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted.

Guarantee 12 months from date of despatch

**Acknowledgements** This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign

counterparts

**Health And Safety** Information

Material Safety Datasheet documentation #20471 available at:

https://www.bio-rad-antibodies.com/SDS/MCA1556SBV475

20471

Regulatory For research purposes only

# **Related Products**

# **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

Fax: +44 (0)1865 852 739 Email: antibody\_sales\_us@bio-rad.com

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 'M389964:210817'

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