

Datasheet: MCA591

Description:	MOUSE ANTI HUMAN CD56
Specificity:	CD56
Other names:	N-CAM
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ERIC-1
Isotype:	IgG1
Quantity:	0.2 mg

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		▪		
Immunohistology - Frozen	▪			1/50 - 1/100
Immunohistology - Paraffin			▪	
ELISA	▪			80ng/ml
Immunoprecipitation			▪	
Immunoblotting	▪			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human retinoblastoma tumour cells.
External Database Links	<p>UniProt: P13591 Related reagents</p> <p>Entrez Gene: 4684 NCAM1 Related reagents</p>
Synonyms	NCAM
RRID	AB_321501
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the P3/X63.Ag8 mouse myeloma line.
Specificity	Mouse anti Human CD56 antibody, clone ERIC-1 recognizes N-CAM expressed on developing and adult neuroectodermal tissues in humans. Neuroectodermal tumours also stain including Glioma, ependymoma, neuroblastoma, medulloblastoma, retinoblastoma and teratoma. Oat cell carcinoma and Wilms tumour are also highly reactive. Mouse anti Human CD56 antibody, clone ERIC-1 will react on Natural Killer cells and recognizes 140, 180 and 120 kDa NCAM isoforms.
Histology Positive Control Tissue	Neuroblastoma
References	<ol style="list-style-type: none"> Bourne, S. P. <i>et al.</i> (1990) A monoclonal antibody (ERIC-1), raised against retinoblastoma, that recognizes the neural cell adhesion molecule (NCAM) expressed on brain and tumours arising from the neuroectoderm J. Neuro-Oncology. 10: 111-9. Whitworth, M.K. <i>et al.</i> (2007) Cervical leukocyte sub-populations in idiopathic preterm labour. J Reprod Immunol. 75: 48-55. Salvatore, G. <i>et al.</i> (2015) Human monocyte-derived dendritic cells turn into foamy dendritic cells with IL-17A. J Lipid Res. 56 (6): 1110-22. Preuße, C. <i>et al.</i> (2012) Immune-mediated necrotizing myopathy is characterized by a specific Th1-M1 polarized immune profile. Am J Pathol. 181 (6): 2161-71. Quenby, S. <i>et al.</i> (2005) Prednisolone reduces preconceptual endometrial natural killer cells in women with recurrent miscarriage. Fertil Steril. 84 (4): 980-4. Debeer, S. <i>et al.</i> (2013) Comparative histology and immunohistochemistry of porcine versus human skin. Eur J Dermatol. 23 (4): 456-66. Criel, A. <i>et al.</i> (1997) Further characterization of morphologically defined typical and atypical CLL: a clinical, immunophenotypic, cytogenetic and prognostic study on 390 cases. Br J Haematol. 97 (2): 383-91. Cameron, A.L. <i>et al.</i> (2002) Natural killer and natural killer-T cells in psoriasis. Arch Dermatol Res. 294 (8): 363-9. McIntosh K <i>et al.</i> (2006) The immunogenicity of human adipose-derived cells: temporal changes <i>in vitro</i>. Stem Cells. 24 (5): 1246-53.

10. Allenbach, Y. *et al.* (2016) Dermatomyositis With or Without Anti-Melanoma Differentiation-Associated Gene 5 Antibodies: Common Interferon Signature but Distinct NOS2 Expression. [Am J Pathol. 186 \(3\): 691-700.](#)
11. Meinhardt, J. *et al.* (2021) Olfactory transmucosal SARS-CoV-2 invasion as a port of central nervous system entry in individuals with COVID-19. [Nat Neurosci. 24 \(2\): 168-75.](#)
12. Preuß, C. *et al.* (2016) Differential roles of hypoxia and innate immunity in juvenile and adult dermatomyositis. [Acta Neuropathol Commun. 4 \(1\): 45.](#)
13. Siegert, E. *et al.* (2021) Systemic sclerosis-associated myositis features minimal inflammation and characteristic capillary pathology. [Acta Neuropathol. 141 \(6\): 917-27.](#)

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.

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

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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](https://www.bio-rad-antibodies.com/datasheets)

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