

Datasheet: MCA591XZ

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

Product Details

RRID AB_321502

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	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			50ng/ml
Immunoprecipitation			▪	
Western Blotting			▪	
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 None present

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Human retinoblastoma tumour cells.

**External Database
Links**

UniProt:

[P13591](#) [Related reagents](#)

Entrez Gene:

[4684](#) NCAM1 [Related reagents](#)

Synonyms

NCAM

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.

References

1. Bourne, S. P. *et al.* (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.](#)
2. Whitworth, M.K. *et al.* (2007) Cervical leukocyte sub-populations in idiopathic preterm labour. [J Reprod Immunol. 75: 48-55.](#)
3. Salvatore, G. *et al.* (2015) Human monocyte-derived dendritic cells turn into foamy dendritic cells with IL-17A. [J Lipid Res. 56 \(6\): 1110-22.](#)
4. Preuße, C. *et al.* (2012) Immune-mediated necrotizing myopathy is characterized by a specific Th1-M1 polarized immune profile. [Am J Pathol. 181 \(6\): 2161-71.](#)
5. Quenby, S. *et al.* (2005) Prednisolone reduces preconceptual endometrial natural killer cells in women with recurrent miscarriage. [Fertil Steril. 84 \(4\): 980-4.](#)
6. Debeer, S. *et al.* (2013) Comparative histology and immunohistochemistry of porcine versus human skin. [Eur J Dermatol. 23 \(4\): 456-66.](#)
7. Criel, A. *et al.* (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.](#)
8. Cameron, A.L. *et al.* (2002) Natural killer and natural killer-T cells in psoriasis. [Arch Dermatol Res. 294 \(8\): 363-9.](#)
9. McIntosh K *et al.* (2006) The immunogenicity of human adipose-derived cells: temporal changes *in vitro*. [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.](#)

Storage

Store at -20°C.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

18 months from date of despatch.

Health And Safety

Material Safety Datasheet documentation #10162 available at:

Information 10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),
[DyLight®649](#), [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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