Datasheet: MCA1652A647

Description:	MOUSE ANTI BOVINE CD26:Alexa Fluor® 647
Specificity:	CD26
Other names:	WC10
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	CC69
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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	▪			1/2 - Neat

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

Bovine

Species Cross Reactivity

Reacts with: Sheep

N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG conjugated to Alexa Fluor® 647 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®647	650	665

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.05 mg/ml

External Database Links

UniProt:
P81425 Related reagents

	Entrez Gene: 281122 DPP4 Related reagents
Synonyms	CD26
Specificity	**Mouse anti Bovine CD26 antibody, clone CC69** recognizes bovine Dipeptidyl peptidase 4, also known as CD26, WC10, Adenosine deaminase complexing protein or Activation molecule 3 (Lee *et al.* 2001). Bovine CD26 is a 765 amino acid single pass type II transmembrane glycoprotein which can be cleaved between residues 37-38 to release a soluble form of the protein. CD26 can exist as a monomer, forms a homodimer for optimal dipeptidase activity or it can form a heterodimer with seprase. CD26 is expressed by a subpopulation of CD2+ T cells, dendritic cells and weakly by most B cells and is also seen on some non-haematopoietic cells, especially gut epithelium. Myeloid cells and the majority of $WC1^{+ve}$ T cells do not express CD26.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Howard, C.J. & Naessens, J. (1993) Summary of workshop findings for cattle (tables 1 and 2). Vet Immunol Immunopathol. 39 (1-3): 25-47. 2. Naessens, J. *et al.* (1993) Cross-reactivity of workshop antibodies with cells from domestic and wild ruminants. Vet Immunol Immunopathol. 39 (1-3): 283-90. 3. Epardaud, M. *et al.* (2004) Enrichment for a CD26hi SIRP- subset in lymph dendritic cells from the upper aero-digestive tract. J Leukoc Biol. 76: 553-61. 4. Contreras, V. *et al.* (2010) Existence of CD8α-like dendritic cells with a conserved functional specialization and a common molecular signature in distant mammalian species. J Immunol. 185: 3313-25. 5. Fries, P.N. *et al.* (2011) Age-related changes in the distribution and frequency of myeloid and T cell populations in the small intestine of calves. Cell Immunol. 271: 428-37. 6. Ferret-Bernard, S. *et al.* (2010) Cellular and molecular mechanisms underlying the strong neonatal IL-12 response of lamb mesenteric lymph node cells to R-848. PLoS One. 5: e13705. 7. Krueger, L.A. *et al.* (2016) Gamma delta T cells are early responders to *Mycobacterium avium* ssp. *paratuberculosis* in colostrum-replete Holstein calves. J Dairy Sci. Sep 7. pii: S0022-0302(16)30611-7. [Epub ahead of print] 8. Contreras, V. *et al.* (2012) Canine recombinant adenovirus vector induces an immunogenicity-related gene expression profile in skin-migrated $CD11b^+$ -type DCs. PLoS One. 7 (12): e52513. 9. Fries, P. *et al.* (2011) Mucosal dendritic cell subpopulations in the small intestine of newborn calves. Dev Comp Immunol. 35 (10): 1040-51.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation.

	The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 (MCA928A647)

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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