

Datasheet: MCA1652A647

**BATCH NUMBER 1705**

<b>Description:</b>	MOUSE ANTI BOVINE CD26:Alexa Fluor® 647
<b>Specificity:</b>	CD26
<b>Other names:</b>	WC10
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CC69
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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 <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.								
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid								
Max Ex/Em	<table><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr><tr><td>Alexa Fluor®647</td><td>650</td><td>665</td></tr></table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®647	650	665		
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	<p><b>UniProt:</b>  <a href="#">P81425</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">281122</a>    DPP4    <a href="#">Related reagents</a></p>
Synonyms	CD26
RRID	AB_2093852
Specificity	<p><b>Mouse anti Bovine CD26 antibody, clone CC69</b> recognizes bovine Dipeptidyl peptidase 4, also known as CD26, WC10, Adenosine deaminase complexing protein or Activation molecule 3 (<a href="#">Lee et al. 2001</a>). 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.</p> <p>CD26 is expressed by a subpopulation of CD2<sup>+</sup> 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<sup>+</sup>ve T cells do not express CD26.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
References	<ol style="list-style-type: none"> <li>Howard, C.J. &amp; Naessens, J. (1993) Summary of workshop findings for cattle (tables 1 and 2). <a href="#">Vet Immunol Immunopathol. 39 (1-3): 25-47.</a></li> <li>Naessens, J. et al. (1993) Cross-reactivity of workshop antibodies with cells from domestic and wild ruminants. <a href="#">Vet Immunol Immunopathol. 39 (1-3): 283-90.</a></li> <li>Epardaud, M. et al. (2004) Enrichment for a CD26hi SIRP- subset in lymph dendritic cells from the upper aero-digestive tract. <a href="#">J Leukoc Biol. 76: 553-61.</a></li> <li>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. <a href="#">J Immunol. 185: 3313-25.</a></li> <li>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. <a href="#">Cell Immunol. 271: 428-37.</a></li> <li>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. <a href="#">PLoS One. 5: e13705.</a></li> <li>Krueger, L.A. et al. (2016) Gamma delta T cells are early responders to <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> in colostrum-replete Holstein calves. <a href="#">J Dairy Sci. Sep 7. pii:</a></li> </ol>

[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<sup>+</sup> -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.](#)

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**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.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1652A647>  
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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

**North & South America**

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