

**Mouse Anti-Bovine CD40,**  
monoclonal

**CatNo** **MAK2431GA**

Batch No: See label  
 Expiration Date: See Label  
 Storage: 2-8°C for 1 month  
 -20°C for longer

<b>Clone Number:</b>	IL-A156
<b>Volume/Quantity:</b>	0.1 mg
<b>CD-Number:</b>	CD40
<b>Product Form:</b>	Purified IgG - liquid
<b>Preservatives Stabilisers:</b>	0.09% Sodium Azide (NaN3)
<b>Approx. Protein Concentrations:</b>	IgG concentration 1.0mg/ml
<b>Preparation:</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution:</b>	Phosphate buffered saline
<b>Fusion Partners:</b>	Spleen cells from immunised BALB/c mice were fused with cells of the X63.Ag8.653 myeloma cell line
<b>Isotype:</b>	IgG1 (Mouse)
<b>Specificity:</b>	<b>Mouse anti Bovine CD40 antibody, clone IL-A156</b> recognizes the bovine Tumor necrosis factor receptor superfamily member 5, also known as CD40 or B-cell surface antigen CD40. CD40 is a 260 amino acid single pass type 1 transmembrane glycoprotein with a predicted molecular mass of 31 kDa. Bovine CD40 also has an N terminal signal peptide of 20 amino acids. Bovine CD40 is expressed by B lymphocytes and a subset of T lymphocytes.
<b>Species Cross Reactivity:</b>	<p>CD40 plays an important role in the differentiation of B lymphocytes into effector cells, and is also involved in interactions between T and B lymphocytes</p> <p>Reacts with: Sheep</p> <p><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.</p>

<b>Applications:</b>	<b>Suggested Working Dilution</b>	
FlowCytometry	Yes	1/25 – 1/200
Immunohistology-frozen	Not tested	
Immunohistology-paraffin	Not tested	
Immunofluorescence	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Not tested	
Functional Assays (1)	Yes	

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.

**(1) Clone IL-A156 is reported to function in in vivo applications, see Haas, K. et al. for details. Removal of sodium azide is recommended prior to use in functional assays.**

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**Flow Cytometry**

	Use 10 µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl. Method sheets are available on request.
<b>Recommended Secondary Reagents:</b>	F(ab') <sub>2</sub> rabbit anti-mouse IgG:FITC conjugate (LINARIS CatNo LST0009B) F(ab') <sub>2</sub> rabbit anti-mouse IgG:RPE conjugate (LINARIS CatNo LST0012A/B)
<b>Recommended Negative Controls:</b>	Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

**References**

	1. Haas, K.M. et al. (2001) Enhancing effects of anti-CD40 treatment on the immune response of SCID-bovine mice to Trypanosoma congolense infection. J Leukoc Biol. 70: 931-40.
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<b>Storage Conditions:</b>	Store at 2-8°C for one month or at -20°C for longer! Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Shelf Life:</b>	12 months from date of despatch.
<b>Health and Safety Information:</b>	(A full Health and Safety assessment is available upon request) This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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**For Research purposes only. Not for therapeutic or diagnostic use.**

