

Datasheet: HCA151A647

Description:	HUMAN ANTI BOVINE CD282:Alexa Fluor® 647
Specificity:	CD282
Other names:	TLR2
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	AbD12542
Isotype:	HuCAL Fab bivalent
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	■			
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting			■	
Functional Assays			■	

Where this product 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 product 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	A bivalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in <i>E. coli</i> . This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is conjugated to Alexa Fluor 647 - liquid		
Max Ex/Em	Fluorophore	Emission Max (nm)	Excitation Max (nm)
	Alexa Fluor®647	665	650
Preparation	metal chelate affinity chromatography		
Buffer Solution	Phosphate buffered saline		

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	Total protein concentration 0.1mg/ml
Immunogen	Fc-fusion protein containing the sequence 21-588 from bovine TLR2.
External Database Links	UniProt: Q95LA9 Related reagents Entrez Gene: 281534 TLR2 Related reagents
Specificity	Human anti Bovine CD282 antibody, clone 12542 recognizes bovine TLR2, otherwise known as CD282. TLR2 is a single-pass type 1 membrane protein belong to the Toll-like receptor (TLR) family and is expressed primarily by peripheral blood monocytes. TLRs are expressed on the cell surface and the endocytic compartment and recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents. They also initiate cell signalling to induce production of cytokines necessary for the innate immunity and subsequent adaptive immunity. TLR2 is reported to respond to a diverse range of bacterial cell wall components, mediating the innate immune response in co-operation with Ly96 and TLR1.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. Kwong, L.S. <i>et al.</i> (2011) Characterisation of antibodies to bovine Toll-like receptor (TLR)-2 and cross-reactivity with ovine TLR2. Vet Immunol Immunopathol. 139: 313-8. 2. Garza-Cuartero Laura <i>et al.</i> (2016) <i>Fasciola hepatica</i> Infection Reduces <i>Mycobacterium bovis</i> burden and Mycobacterial Uptake and Suppresses the Pro-inflammatory Response Parasite Immunology. Apr 25 [Epub ahead of print] 3. Conejeros, I. <i>et al.</i> (2015) Effect of the synthetic Toll-like receptor ligands LPS, Pam3CSK4, HKLM and FSL-1 in the function of bovine polymorphonuclear neutrophils. Dev Comp Immunol. 52 (2): 215-25.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of despatch.
Acknowledgements	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. 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

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Health And Safety Information

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10041 available at:

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For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

Regulatory

For research purposes only

Technical Advice

Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

Related Products

Recommended Negative Controls

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL:Alexa Fluor® 647 \(HCA052A647\)](#)

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