

Datasheet: HCA152A647

Description:	HUMAN ANTI BOVINE CD282:Alexa Fluor® 647
Specificity:	CD282
Other names:	TLR2
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	12538
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	▪			Neat
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

Product Form

A bivalent human recombinant Fab (kappa light chain) selected from the HuCAL® phage display library, expressed in *E. coli*. 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	Excitation (nm)	Emission (nm)
Alexa Fluor®647	650	665

Preparation

Metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)
1% Bovine Serum Albumin

Approx. Protein Concentrations	Total protein concentration 0.05mg/ml
Immunogen	Fc-fusion protein containing the sequence 21-588 from bovine TLR2.
External Database Links	<p>UniProt: Q95LA9 Related reagents</p> <p>Entrez Gene: 281534 TLR2 Related reagents</p>
Specificity	<p>Human anti Bovine CD282 antibody, clone 12538 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.</p> <p>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.</p> <p>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.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 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.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	12 months from date of despatch.
Acknowledgements	<p>Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents.</p> <p>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</p>
Health And Safety Information	Material Safety Datasheet documentation #10041 available at https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf

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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 \(HCA052A647\)](#)

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

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

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