

## Datasheet: HCA151

<b>Description:</b>	HUMAN ANTI BOVINE CD282
<b>Specificity:</b>	CD282
<b>Other names:</b>	TLR2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD12542
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	0.1 mg

## 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	▪			
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.

<b>Target Species</b>	Bovine
<b>Species Cross Reactivity</b>	Reacts with: Sheep <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	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 supplied lyophilised.
<b>Reconstitution</b>	Reconstitute with 1.0ml distilled water
<b>Preparation</b>	metal chelate affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

<b>Stabilisers</b>	1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	Total protein concentration 0.1mg/ml
<b>Immunogen</b>	Fc-fusion protein containing the sequence 21-588 from bovine TLR2.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q95LA9</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">281534</a>    TLR2    <a href="#">Related reagents</a></p>
<b>Specificity</b>	<p><b>Human anti Bovine CD282 antibody, clone 12542</b> 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>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>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. <a href="#">Vet Immunol Immunopathol. 139: 313-8.</a></li> <li>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 <a href="#">Parasite Immunology. Apr 25 [Epub ahead of print]</a></li> <li>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. <a href="#">Dev Comp Immunol. 52 (2): 215-25.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at -20°C.</p> <p>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.</p>
<b>Shelf Life</b>	12 months from date of reconstitution.
<b>Acknowledgements</b>	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation available at:  Material Safety Datasheet Documentation #10041 available at:  <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a></p>
<b>Licensed Use</b>	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

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**Regulatory** For research purposes only

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

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## Related Products

### Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

Mouse Anti Human C-MYC (MCA2200...) [ALEXA FLUOR® 488](#), [ALEXA FLUOR® 647](#), [Biotin](#), [FITC](#), [RPE](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [ALEXA FLUOR® 647](#), [FITC](#)

### Recommended Negative Controls

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL \(HCA052\)](#)

**North & South** Tel: +1 800 265 7376

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