

## Datasheet: HCA089D549

<b>Description:</b>	HUMAN ANTI MALTOSE BINDING PROTEIN:DyLight® 549
<b>Specificity:</b>	MALTOSE BINDING PROTEIN
<b>Other names:</b>	MBP
<b>Format:</b>	DyLight®549
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD06592
<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			▪	
Immunofluorescence	▪			

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** Bacterial

### Product Form

A bivalent human recombinant Fab selected from the HuCAL® GOLD 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 supplied as a liquid conjugated to DyLight®549.

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	DyLight®549	562	576

<b>Preparation</b>	Metal chelate affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Ig concentration 1.0 mg/ml
<b>Immunogen</b>	Fusion protein containing MBP as the fusion partner.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">POAEX9</a> <a href="#">Related reagents</a>
<b>RRID</b>	AB_2021060
<b>Specificity</b>	<p><b>Human anti maltose binding protein antibody, clone AbD06592</b> recognizes maltose binding protein (MBP). MBP is a periplasmic protein of <i>Escherichia coli</i> (<a href="#">Guillermo et al. 2010</a>), involved in the chemotactic response to maltose (<a href="#">Manson et al. 1985</a>). MBP is commonly used as a carrier protein for the production of stable fusion proteins, which facilitates the identification and purification of the protein (<a href="#">Lebendiker et al. 2011</a>).</p> <p>Human anti maltose binding protein antibody, clone AbD06592 is useful in recognizing proteins expressed with an MBP tag.</p>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<p>Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents.</p> <p>DyLight® is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Licensed Use</b>	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.
<b>Regulatory</b>	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](#)

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'M333697:181119'

**Printed on 09 Feb 2021**

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