

## Datasheet: HCA023

<b>Description:</b>	HUMAN ANTI HUMAN DESMIN
<b>Specificity:</b>	DESMIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD03744
<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
Immunohistology - Frozen	▪			1/100 - 1/500
Immunohistology - Paraffin (1)	▪			1/100 - 1/500
ELISA	▪			2 ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			1/200 - 1/2000

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.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	A bivalent human recombinant Fab selected from the HuCAL GOLD phage display library. Expressed in <i>E. Coli</i> and purified using NiNTA affinity chromatography. 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 anti-body heavy chain.
<b>Preparation</b>	Metal chelate affinity chromatography
<b>Source</b>	E.coli
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Recombinant human desmin produced in <i>E. coli</i> .
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P17661</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1674</a>    DES    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_770095
<b>Specificity</b>	<p><b>Human anti Human desmin, clone AbD03744</b> recognizes desmin, a member of the class III family of intermediate filaments. Desmin constitutes part of the cytoskeleton, and is the characteristic intermediate filament of all three types of muscle cells (skeletal, cardiac and smooth muscle).</p> <p>Desmin is a 52 kDa protein encoded by nine exons of a gene located at 2q35. Desmin forms a cytoskeletal network across the muscle fiber bordering at the plasma and nuclear membrane and is particularly localized to the subplasmalemmal region and the Z-band. Staining for desmin is useful for identification of rhabdomyosarcomas and leiomyomas.</p> <p>For use in immunohistology staining we recommend the use of an anti-His tag bridging antibody, followed by visualization using the Dako Duet staining system.</p>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	6 months from date of despatch
<b>Acknowledgements</b>	<p>This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at:  <a href="https://www.bio-rad-antibodies.com/SDS/HCA023">https://www.bio-rad-antibodies.com/SDS/HCA023</a>  10040</p>
<b>Licensed Use</b>	For <i>in vitro</i> . 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](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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