

## Datasheet: HCA071A

<b>Description:</b>	HUMAN ANTI HUMAN DESMIN
<b>Specificity:</b>	DESMIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD05054
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	50 µg

## 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 (1)	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/100 - 1/250

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 (kappa light chain) selected from the HuCAL® GOLD 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 (HHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.
<b>Preparation</b>	Metal chelate affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.01% Thiomersal
<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_1604925
<b>Specificity</b>	<p><b>Human anti Human Desmin antibody, clone AbD05054</b> recognizes human desmin. Desmin belongs to the class III of intermediate filaments, constituting part of the cytoskeleton, and is the characteristic intermediate filament of all three types of muscle cells (skeletal, cardiac and smooth muscle). Desmin is a ~52 kDa protein encoded by nine exons of a gene located at 2q35. Desmin forms cytoskeletal network across the muscle fibre bordering at the plasma and nuclear membrane and is particularly localized to the subplasmalemmal region and the Z-band. It is useful for identification of rhabdomyosarcomas and leiomyomas.</p>
<b>Histology Positive Control Tissue</b>	Human appendix
<b>References</b>	1. Tahir, T.M. <i>et al.</i> (2010) Gastric Schwannoma in a Female Patient with Pulmonary Tuberculosis - A Clinicopathological Assessment and Diagnosis <a href="#">Malaysian J. Med. Sci. 17: 45-50</a>
<b>Storage</b>	<p>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.</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. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.  His-tag is a registered trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: 10094: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf</a>

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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 Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

Mouse Anti Human C-MYC (MCA2200...) [Alk. Phos.](#), [Biotin](#), [HRP](#)

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