

Datasheet: HCA023

Description:	HUMAN ANTI HUMAN DESMIN
Specificity:	DESMIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD03744
Isotype:	HuCAL Fab bivalent
Quantity:	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.

	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.

Target Species	Human
Product Form	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.
Preparation	Metal chelate affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Recombinant human desmin produced in <i>E. coli</i>

**External Database
Links**

UniProt:

[P17661](#) [Related reagents](#)

Entrez Gene:

[1674](#) DES [Related reagents](#)

Specificity

Human anti Human desmin, clone AbD03744 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).

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.

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.

Storage

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.

Shelf Life

6 months from date of despatch

Acknowledgements

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.

**Health And Safety
Information**

Material Safety Datasheet documentation #10094 available at:
10094: <https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf>

Licensed Use

For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

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 Secondary Antibodies

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

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