

Datasheet: VMA00012

BATCH NUMBER 080714

Description:	HUMAN ANTI CYTOKERATIN 14
Specificity:	CYTOKERATIN 14
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	HuCAL Fab bivalent
Quantity:	100 µl

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
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

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 product is supplied as a liquid.

Preparation

Recombinant human monoclonal antibody purified by metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Immunogen

Recombinant human cytokeratin 14

**External Database
Links**

UniProt:

[P02533](#) [Related reagents](#)

Entrez Gene:

[3861](#) KRT14 [Related reagents](#)

Specificity

Human anti Human cytokерatin 14 antibody recognizes human cytokерatin 14 (CK14), a 472 amino acid, acidic type I intermediate filament. The intermediate filaments are expressed as heterodimers in epithelial tissues. CK14 is expressed in the basal compartment of all stratified squamous epithelia and is co-expressed with cytokерatin 5 (CK5).

Mutations in the cytokерatin 5 (KRT5) and cytokерatin 14 (KRT14) genes have been identified in patients with the skin disorder epidermolysis bullosa simplex ([Coulombe et al. 1991](#)) and in other epidermal conditions including Naegeli-Franceschetti-Jadassohn syndrome and dermatopathia pigmentosa reticularis ([Lugassy et al. 2006](#)).

Human anti Human cytokерatin 14 antibody recognizes human cytokерatin 14 as a band of ~52 kDa in HeLa cell lysates by western blotting under reducing conditions.

Western Blotting

Anti cytokерatin 14 antibody detects a band of approximately 52 kDa in HeLa cell lysates.

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

12 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. PrecisionAb is a trademark of Bio-Rad Laboratories. His-tag is a registered trademark of EMD Biosciences.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00012>
Antibody (10040)

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Goat Anti Human IgG F(ab')₂ (STAR126...) [HRP](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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

Printed on 13 Aug 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)