

Datasheet: VMA00012

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| 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 |

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

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| Target Species | Human |
| Product Form | A bivalent human recombinant Fab 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 (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 (NaN ₃) |
| Immunogen | Recombinant human cytokeratin 14 |
| External Database Links | <p>UniProt: P02533 Related reagents</p> <p>Entrez Gene: 3861 KRT14 Related reagents</p> |

Specificity

Human anti Human cytokeratin 14 antibody recognizes human cytokeratin 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 cytokeratin 5 (CK5).

Mutations in the cytokeratin 5 (KRT5) and cytokeratin 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 cytokeratin 14 antibody recognizes human cytokeratin 14 as a band of ~52 kDa in HeLa cell lysates by western blotting under reducing conditions.

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| Western Blotting | Anti cytokeratin 14 antibody detects a band of approximately 52 kDa in HeLa cell lysates. |
| Instructions For Use | Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page. |
| Storage | Store undiluted at -20°C, avoiding repeated freeze thaw cycles. |
| Guarantee | As supplied, 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: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf |
| 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](#)

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