

## Datasheet: VMA00012KT

<b>Description:</b>	CYTOKERATIN 14 ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	CYTOKERATIN 14
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	2 Westerns

### 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
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.

#### Target Species

Human

#### Product Form

A bivalent human recombinant Fab selected from the HuCAL<sup>®</sup> 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

20µl Recombinant human monoclonal antibody purified by metal chelate affinity chromatography

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

#### Immunogen

Recombinant human cytokeratin 14

**External Database  
Links**

**UniProt:**

[P02533](#)   [Related reagents](#)

**Entrez Gene:**

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

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**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.

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**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.

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**Lysate Composition**

400µg HeLa lysate lyophilized in RIPA buffer.

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**Lysate Reconstitution**

- If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.  
- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.  
Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

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**Storage**

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

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

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**Guarantee**

As supplied, 12 months from date of despatch.

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**Acknowledgements**

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

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 #10561 available at:  
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>  
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

## Related Products

### Recommended Secondary Antibodies

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

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

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