

## Datasheet: MCA888H

<b>Description:</b>	MOUSE ANTI HUMAN CYTOKERATIN TYPE II
<b>Specificity:</b>	CYTOKERATIN TYPE II
<b>Format:</b>	Ready To Use
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AE3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	6 ml

## 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
Immunohistology - Frozen	▪			Neat
Immunohistology - Paraffin (1)	▪			Neat

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 protein digestion pre-treatment of paraffin sections. Antigen retrieval buffer pH8.0 (BUF025A) is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Rat, Chicken, Macaque, Bovine, Shrew, Rabbit, Mouse, Frog (Rana esculenta), Rainbow Trout</p> <p>Based on sequence similarity, is expected to react with: Fish</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Purified IgG - liquid, ready to use
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide 1% Bovine Serum Albumin
Immunogen	Human epidermal cells.
RRID	AB_2134710
Specificity	<p><b>Mouse anti Human cytokeratin type II antibody, clone AE3</b> recognizes human cytokeratin type II and reacts with most of the Basic (Type II) keratins. Including epidermal cell keratin of ~86 and 58 kDa and skin at ~58 kDa, 65 kDa and 67 kDa. Broad keratin reactivity is found on human epidermal cell, oesophagus and cornea.</p> <p>Human epithelium contains at least one basic keratin, AE3 is broadly reactive and stains positively almost all epithelia and their neoplasms.</p>
Histology Positive Control Tissue	Human epidermal cell, Oesophagus, cornea.
References	<ol style="list-style-type: none"> <li>1. Eichner, R. <i>et al.</i> (1984) Classification of epidermal keratins according to their immunoreactivity, isoelectric point, and mode of expression. <a href="#">J Cell Biol. 98 (4): 1388-96.</a></li> <li>2. Weiss, R.A. <i>et al.</i> (1984) Monoclonal antibody analysis of keratin expression in epidermal diseases: a 48- and 56-kdalton keratin as molecular markers for hyperproliferative keratinocytes. <a href="#">J Cell Biol. 98 (4): 1397-406.</a></li> <li>3. Markl, J. &amp; Franke, W.W. (1998) Localization of cytokeratins in tissues of the rainbow trout: Fundamental differences in expression pattern between fish and higher vertebrates. <a href="#">Differentiation 39: 97-122.</a></li> <li>4. Tsubura, A. <i>et al.</i> (1991) Immunophenotypic difference of keratin expression in normal mammary glandular cells from five different species. <a href="#">Acta Anat (Basel). 140 (3): 287-93.</a></li> <li>5. Fenoglio C <i>et al.</i> (2006) Morphofunctional evidence of changes in principal and mitochondria-rich cells in the epidermis of the frog <i>Rana kl. esculenta</i> living in a polluted habitat. <a href="#">Arch Environ Contam Toxicol. 51 (4): 690-702.</a></li> <li>6. Borrmann, E. <i>et al.</i> (2007) <i>Campylobacter</i>-induced interleukin-8 responses in human intestinal epithelial cells and primary intestinal chick cells. <a href="#">Vet Microbiol. 124: 115-24.</a></li> <li>7. Merkel, V. <i>et al.</i> (2010) Distribution and phylogeny of immunoglobulin-binding protein G in Shiga toxin-producing <i>Escherichia coli</i> and its association with adherence phenotypes. <a href="#">Infect Immun. 78: 3625-36.</a></li> </ol>
Storage	<p>Store at +4°C.</p> <p>DO NOT FREEZE</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	Guaranteed until date of expiry. Please see product label.

**Health And Safety  
Information**

Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

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