

Datasheet: HCA077

Description:	HUMAN ANTI HUMAN CYTOKERATIN 18/19
Specificity:	CYTOKERATIN 18/19
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD03748
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			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

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 (kappa light chain) 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 antibody is supplied liquid.
Preparation	Metal chelate affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5mg/ml
Immunogen	Recombinant human cytokeratin 18

**External Database
Links**

UniProt:

[P05783](#) [Related reagents](#)
[P08727](#) [Related reagents](#)

Entrez Gene:

[3875](#) KRT18 [Related reagents](#)
[3880](#) KRT19 [Related reagents](#)

Synonyms

CYK18

Specificity

Human anti Human Cytokeratin 18/19 antibody, clone 3748 recognizes human cytokeratin 18, a 45kDa type I intermediate filament protein expressed by epithelial cells. The intermediate filaments are expressed as heterodimers in epithelial tissues. Cytokeratin 18 (CK18) is often co-expressed with cytokeratin 8 (CK8). The CK18/CK8 heterodimer is the major cytokeratin pair found in simple epithelia such as that found in the liver, intestine and breast ducts. CK18 plays an important role in maintaining epithelial cell integrity.

This clone has also been demonstrated to cross-react with cytokeratin 19.

**Histology Positive
Control Tissue**

Human bladder

Western Blotting

HCA077 detects bands of approximately 42 and 45kDa in HT-29 cell lysates.

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

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.

**Health And Safety
Information**

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10094 available at:
<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](#)

Mouse Anti Human C-MYC (MCA2200...) [Alk. Phos.](#), [Biotin](#), [HRP](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

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