

Datasheet: MCA2706

Description:	MOUSE ANTI HUMAN CYTOKERATIN 7/17
Specificity:	CYTOKERATIN 7/17
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	C-46
Isotype:	IgG1
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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			20 - 30ug/ml
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			2 - 3ug/ml

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 e.g. trypsin or pronase.

Target Species	Human
Species Cross Reactivity	Reacts with: Bovine, Pig Does not react with: Mouse, Rabbit, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml

Immunogen HeLa cell cytoskeleton preparation.

External Database Links

UniProt:

[Q04695](#) [Related reagents](#)
[P08729](#) [Related reagents](#)

Entrez Gene:

[3872](#) KRT17 [Related reagents](#)
[3855](#) KRT7 [Related reagents](#)

Synonyms SCL

Specificity

Mouse anti Human Cytokeratin 7/17 antibody, clone C-46 recognizes a unique epitope shared by the intermediate filament keratins, cytokeratin 7 and cytokeratin 17, a ~54 kDa type II basic cytokeratin, and ~46 kDa type I acidic cytokeratin respectively.

Cytokeratins are located in the intracytoplasmic cytoskeleton of epithelial tissues and their neoplasms, including the lungs, ovary and breast. Each keratin filament consists of at least one type I and one type II keratin chain, which then assemble to form a cytoskeletal network, extending from the surface of the nucleus to the cell membrane. The expression of a particular type of cytokeratin depends mainly on the type of epithelium and the development stage of the cell, including its corresponding malignant state. Immunohistochemical analysis of cytokeratin profiles is therefore a valuable tool for diagnosis and characterization, and this particular antibody could be useful for the evaluation of some stratified epithelia which express cytokeratin 17, but not cytokeratin 7.

Mouse anti Human Cytokeratin 7/17 antibody, clone C-46 is reported as suitable for use in immunocytochemistry ([Bartek *et al.* 1991](#)).

Histology Positive Control Tissue

Pancreas.

Western Blotting

MCA2706 detects bands of approximately 54kDa and 46kDa in HeLa cytoskeleton cell lysates under reducing conditions.

References

1. Bártek, J. *et al.* (1991) A series of 14 new monoclonal antibodies to keratins: characterization and value in diagnostic histopathology. [J Pathol. 164 \(3\): 215-24.](#)
 2. Vojtěšek, B. *et al.* (1990) A panel of monoclonal antibodies to keratin no. 7: characterization and value in tumor diagnosis. [Neoplasma. 37 \(3\): 333-42.](#)
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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

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000C\)](#)

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