

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

RRID AB_2234503

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 (NaN₃)

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	HeLa cell cytoskeleton preparation.
External Database Links	<p>UniProt:</p> <p>Q04695 Related reagents</p> <p>P08729 Related reagents</p> <p>Entrez Gene:</p> <p>3872 KRT17 Related reagents</p> <p>3855 KRT7 Related reagents</p>
Synonyms	SCL
Specificity	<p>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.</p> <p>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.</p> <p>Mouse anti Human Cytokeratin 7/17 antibody, clone C-46 is reported as suitable for use in immunocytochemistry (Bartek <i>et al.</i> 1991).</p>
Histology Positive Control Tissue	Pancreas.
Western Blotting	MCA2706 detects bands of approximately 54kDa and 46kDa in HeLa cytoskeleton cell lysates under reducing conditions.
References	<ol style="list-style-type: none"> 1. Bártek, J. <i>et al.</i> (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. <i>et al.</i> (1990) A panel of monoclonal antibodies to keratin no. 7: characterization and value in tumor diagnosis. Neoplasma. 37 (3): 333-42.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Guarantee	18 months from date of despatch.

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

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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