



Mouse Anti-Human Cytokeratin 18,
monoclonal

CatNo **K041**

BatchNo: See Label
Expiration Date: See Label
Storage: 2-8°C for 1 month
-20°C for longer

Background:	Epithelial cells and their derivatives typically consist of intermediate filaments composed of approximately 20 different related polypeptides. The molecular weights of these cytokeratins range from 40,000 to 69,000 Da. Each epithelial tissue shows a specific and stable expression pattern of these cytokeratin subunits. Tumors originating from epithelia retain the cytokeratin expressions of normal epithelial cells. For this reason, carcinomas can be identified and classified using antibodies that specifically react with the various cytokeratins.
Clone Number:	Cy90
Volume/Quantity:	0.1 ml
Product Form:	Ascites - liquid
Preservatives Stabilisers:	0.09 Sodium Azide (NaN ₃)
Immunogen:	Human A-431 and MCF-7 cell lines
Isotype:	IgG1 (Mouse)
Specificity:	The monoclonal antibody K041 (CY-90) reacts highly specifically with human cytokeratin18 in a variety of simple epithelia (e.g. with intestinal, bronchial, urinary tract, liver and glandular epithelia of prostate and uterus). It does not react with squamous epithelia of the following organs: epidermis, hair follicles, sebaceous glands, tongue, esophagus and vagina or with non-epithelial cells.

Applications:	Suggested Working Dilution	
FlowCytometry	Not tested	
Immunohistology-frozen	Yes	
Immunohistology-paraffin	Yes	1/50 – 1/100
Immunohistology-resin	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Not tested	
Radioimmunoassay	Not tested	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

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Immunohistology

Pretreatment	This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.
Positive Control Tissue:	Tonsil
Recommended Secondary Reagents:	F(ab') ₂ rabbit anti-mouse IgG HRP conjugate – (LINARIS CatNo LST0013B) Vectastain [®] ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector [®] Red (Vector CatNo SK-5100). Vectastain [®] ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).
Recommended Negative Controls:	Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

Storage Conditions:	Store at 2-8°C for one month or at -20°C for longer! 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.
Health and Safety Information:	(A full Health and Safety assessment is available upon request) This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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For Research purposes only. Not for therapeutic or diagnostic use.

