



**Mouse Anti-Human Cytokeratin 13,**  
**monoclonal**

**CatNo** **K018**

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

<b>Clone Number:</b>	Ks 13.1
<b>Volume/Quantity:</b>	50 µg
<b>Product Form:</b>	Purified IgG - lyophilised
<b>Reconstitution:</b>	Reconstituted with 1 ml distilled water
<b>Preparation:</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer:</b>	Phosphate buffered saline
<b>Preservatives Stabilisers:</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin (BSA)
<b>Approx. Protein Concentrations:</b>	IgG concentration 50 µg/ml
<b>Immunogen:</b>	Cytokeratin 13 purified from human oesophagus
<b>Isotype:</b>	IgG1 (Mouse)
<b>Specificity:</b>	This antibody reacts with human cytokeratin 13 with minor affinity for cytokeratins 14 and 17. Cytokeratin 13 (54 kD) is expressed by several stratified squamous epithelia such as vagina, tongue, oral mucosa, oesophagus, epidermis and urothelium of bladder.  cervical carcinomas, cloacogenic carcinomas and transitional cell carcinoma of bladder also express cytokeratin 13.
<b>Species Cross Reactivity:</b>	Human, bovine, mouse, rat

<b>Applications:</b>	<b>Suggested Working Dilution</b>	
FlowCytometry	Not tested	
Immunohistology-frozen	Yes	1/50
Immunohistology-paraffin	Yes	1/50
Immunohistology-resin	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Yes	
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**

<b>Pre-treatment:</b>	This product requires antigen retrieval using heat treatment prior to staining of paraffin sections with HistoSave-Enhancer. (LINARIS CatNo E7000) or protein digestion pre-treatment of paraffin sections e. g. Pronase (LINARIS CatNo E110).
<b>Recommended Secondary Reagents:</b>	F(ab') <sub>2</sub> rabbit anti-mouse IgG HRP conjugate - (LINARIS CatNo LST0013B) ABC-Kit Mouse IgG-POD Labelling (LINARIS CatNo EDP4002) DAB-Substrate for POD (LINARIS CatNo E108) ABC-Kit Mouse IgG AP Labelling (LINARIS CatNo EDA5002) BCIP/NBT Substrate for AP (LINARIS CatNo ESA5400)
<b>Recommended Negative Controls:</b>	Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

**Westernblotting**

<b>Chemiluminescent Substrate:</b>	DuoLuX Chemiluminescent Substrate for Alkaline Phosphatase (AP) (Vector CatNo SK-6605) and Peroxidase (POD) (Vector CatNo SK-6604).
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**References**

1. Moll, R. et al. (1988). Cytokeratins in normal and malignant transitional epithelium. Am. J. Pathol. 132, 123-144.
2. Franke, W. W. et al. (1986). Cell typing of epithelia and carcinomas of the female genital tract using cytoskeletal proteins as markers. Banbury Report 21: Viral Etiology of Cervical Cancer, Cold Spring Harbor Laboratory (NY), 121-148.
3. Moll, R. et al. (1982). The catalog of human cytokeratins: patterns of expression in normal epithelia, tumors and cultured cells. Cell 31:11-24.

<b>Storage Conditions:</b>	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.
<b>Shelf Life:</b>	12 months from date of despatch.
<b>Health and Safety Information:</b>	(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.**

