Datasheet: 5552-9009

Description:	MOUSE ANTI HUMAN CYTOKERATIN 19
Specificity:	CYTOKERATIN 19
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	A53-B/A2
Isotype:	IgG2a
Quantity:	0.2 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)	▪			1/100 - 1/200
ELISA	▪			
Western Blotting	▪			
Immunofluorescence	▪			

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 the appropriate negative/positive controls.

(1)**This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Carrier Free	Yes
Approx. Protein Concentrations	1.0 mg/ml
Immunogen	Human breast cancer cell line MCF-7.

External Database Links	**UniProt:** P08727 Related reagents **Entrez Gene:** 3880 KRT19 Related reagents
RRID	AB_2133439
Specificity	**Mouse anti Human cytokeratin 19 antibody, clone A53-B/A2** recognizes the rod domain (aa 312-335) of human cytokeratin 19 (Böttger; *et al.* 1995) also known as keratin 19 encoded by the KRT19 gene. Cytokeratin 19 is a 400 amino acid intermediate filament protein lacking a C-terminal tail domain, in contrast to all other intermediate filament proteins. Cytokeratin 19 expression is observed in striated muscle where it is involved in forming the association between the contractile apparatus and dystrophin (Stone *et al.* 2005). Expression is also seen in many ductal and glandular cells together with a restricted set of normal and neoplasic epithelial cells. Mouse anti Human cytokeratin 19 antibody, clone A53-B/A2 detects a band of ~45 kDa in western blotting using an A-549 human alveolar adenocarcinoma cell line lysate.
Histology Positive Control Tissue	Appendix
Western Blotting	In Western blotting 40 kD and 19 kD bands are observed.
References	1. Karsten, U. *et al.* (1985) Monoclonal anti-cytokeratin antibody from a hybridoma clone generated by electrofusion. Eur J Cancer Clin Oncol. 21 (6): 733-40. 2. Kasper, M. *et al.* (1987) Histological evaluation of three new monoclonal anti-cytokeratin antibodies. 1. Normal tissues. Eur J Cancer Clin Oncol. 23 (2): 137-47. 3. Goletz, S. *et al.* (1997) Novel alphaGalNAc containing glycans on cytokeratins are recognized invitro by galectins with type II carbohydrate recognition domains. J Cell Sci. 110 (Pt 14): 1585-96. 4. de Neergaard, M. *et al.* (2010) Epithelial-stromal interaction 1 (EPSTI1) substitutes for peritumoral fibroblasts in the tumor microenvironment. Am J Pathol. 176: 1229-40. 5. Ehlicke, F. *et al.* (2010) Intervertebral disc regeneration: influence of growth factors on differentiation of human mesenchymal stem cells (hMSC). Int J Artif Organs. 33 (4): 244-52. 6. Johnston, R.L. *et al.* (2016) High content screening application for cell-type specific behaviour in heterogeneous primary breast epithelial subpopulations. Breast Cancer Res. 18 (1): 18.
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.
Guarantee	12 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
Human Anti Mouse IgG2a (HCA037...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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