

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](#)

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 neoplastic 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.

Shelf Life

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 (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
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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