

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	▪			

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. 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	<p>UniProt: P08727 Related reagents</p> <p>Entrez Gene: 3880 KRT19 Related reagents</p>
RRID	AB_2133439
Specificity	<p>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.</p> <p>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.</p> <p>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.</p>
Histology Positive Control Tissue	Appendix
Western Blotting	In Western blotting 40 kD and 19 kD bands are observed.
References	<ol style="list-style-type: none"> 1. Karsten, U. <i>et al.</i> (1985) Monoclonal anti-cytokeratin antibody from a hybridoma clone generated by electrofusion. Eur J Cancer Clin Oncol. 21 (6): 733-40. 2. Kasper, M. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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.](#)
7. Orafa, Z. *et al.* (2022) Quantitative CK19 biomarker detection in breast cancer cell lines. [J Med Life. 15 \(2\): 188-195.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/5552-9009>
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Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
 Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
 Goat Anti Mouse IgG (STAR76...) [RPE](#)
 Goat Anti Mouse IgG (STAR70...) [FITC](#)
 Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
 Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
 Goat Anti Mouse IgG (STAR77...) [HRP](#)
 Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
 Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Recommended Negative Controls

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

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