

Datasheet: MCA6434GA

BATCH NUMBER 171558

Description:	MOUSE ANTI HUMAN CYTOKERATIN (PAN REACTIVE)
Specificity:	CYTOKERATIN PAN REACTIVE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	C-11
Isotype:	IgG1
Quantity:	0.1 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 (1)	▪			1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (2)	▪			
Immunoprecipitation	▪			
Western Blotting	▪			
Immunofluorescence	▪			
Rare Cell / CTC Enumeration	▪			1/200

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 appropriate negative/positive controls.

(1) **Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.**

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

Target Species	Human
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Species Cross Reactivity	<p>Reacts with: Bovine</p> <p>Based on sequence similarity, is expected to react with: Mammals</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or</p>
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personal communications from the originators. Please refer to references indicated for further information.

Product Form	Purified IgG - liquid
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Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
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Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
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Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
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Immunogen	Keratin-enriched preparation from human epidermoid carcinoma cell line A431
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External Database Links

UniProt:

P02538	Related reagents
P05783	Related reagents
P13645	Related reagents
P13647	Related reagents
P13646	Related reagents
P19013	Related reagents
P48668	Related reagents
P04259	Related reagents
P05787	Related reagents

Entrez Gene:

3853	KRT6A	Related reagents
3875	KRT18	Related reagents
3851	KRT4	Related reagents
3852	KRT5	Related reagents
3858	KRT10	Related reagents
3860	KRT13	Related reagents
3854	KRT6B	Related reagents
3856	KRT8	Related reagents
286887	KRT6C	Related reagents

Synonyms	CYK18, CYK4, CYK8, K6A, K6B, KPP, KRT6D, KRT6E, KRTL1
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Specificity	Mouse anti human cytokeratin (Pan reactive) antibody, clone C-11 recognizes the human cytokeratins 4, 5, 6, 8, 10, 13 and 18.
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Cytokeratins, also known as keratins, form a subfamily of cytoplasmic proteins expressed

in epithelial cells where they form intermediate filaments responsible for providing cells resistance to mechanical stress. Cytokeratins are characterized by their remarkable biochemical diversity, with epithelial tissues expressing at least 20 different cytokeratins (cytokeratin 1 to 20) divided into type I cytokeratins (acidic cytokeratins 9 to 20) and type II cytokeratins (basic to neutral cytokeratins 1 to 8) subfamilies. Cytokeratin expression profile is largely specific to particular organs and tissues and their development stage. That tissue-specific expression profile of cytokeratins is usually retained upon epithelial cell transformation and is therefore used in clinic to identify the cells from which carcinomas originated from.

Mouse anti Human Cytokeratin (Pan reactive) antibody, clone C-11, has been validated for use on the [Genesis Cell Isolation System with the CelSelect Slide™ technology](#).

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Bártková, J. *et al.* (1991) Effects of tissue fixation conditions and protease pretreatment on immunohistochemical performance of a large series of new anti-keratin monoclonal antibodies: value in oncopathology. [Neoplasma. 38:439-446.](#)
2. Hoefler, R.S. & , Kudva, I.T. (2021) EDL933 Strains of Escherichia coli O157 can Demonstrate Genetic Diversity and Differential Adherence to Bovine Recto-Anal Junction Squamous Epithelial Cells [The Open Microbiology Journal. 15 \(1\): 129-38.](#)
3. Kudva, I.T. *et al.* (2023) Bovine Rectoanal Junction *In Vitro* Organ Culture Model System to Study Shiga Toxin-Producing *Escherichia coli* Adherence. [Microorganisms. 11 \(5\): 1289.](#)
4. Peroutka-Bigus, N. *et al.* (2024) Phenotypic and genomic comparison of three human outbreak and one cattle-associated Shiga toxin-producing *Escherichia coli* O157:H7. [Microbiol Spectr. : e0414023.](#)

Storage This product is shipped at ambient temperature.
Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch.

Acknowledgements CelSelect Slides is a trademark of Bio-Rad Laboratories, Inc. in certain jurisdictions

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6434GA>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
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 (STAR12...)	RPE

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M441221:250523'

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