

Datasheet: 4329-4911

Description:	RABBIT ANTI ESCHERICHIA COLI:Biotin
Specificity:	ESCHERICHIA COLI
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	1 ml

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
ELISA	▪			

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.

Target Species	Bacterial
Product Form	Purified IgG conjugated to Biotin - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	4.0 mg/ml
Immunogen	A mixture of all antigenic serotypes.
RRID	AB_616741

Specificity

Rabbit anti *Escherichia coli* antibody recognizes *Escherichia coli* and is broadly reactive with all somatic and capsular (O and K) antigenic serotypes. The somatic O antigens are composed of lipopolysaccharide complexes which form part of the cell wall structure of *E. coli* whilst the capsular K antigens are mainly composed of acidic

polysaccharide.

This antibody will remove *E.coli* proteins from recombinant preparations. Rabbit anti *Escherichia coli* antibody has not been absorbed and may cross-react with related enterobacteriaceae. Rabbit anti *Escherichia coli* antibody has been used in ELISA with serotypes O157:H7, O20, O125, 055, 0111 and K12.

References

1. Tian, B. *et al.* (2015) Blu-ray optomagnetic measurement based competitive immunoassay for *Salmonella* detection. [Biosens Bioelectron. 77: 32-9.](#)
2. Skladal, P. *et al.* (2013) Electrochemical immunosensors for detection of microorganisms [Int. J. Electrochem. Sci., 8 1635 - 49](#)
3. Su, W.H. *et al.* (2013) Development of a chip-based multiplexed immunoassay using liposomal nanovesicles and its application in the detection of pathogens causing female lower genital tract infections. [Taiwan J Obstet Gynecol. 52: 25-32.](#)
4. Ho, T.Y. *et al.* (2013) Development of a novel bead-based 96-well filtration plate competitive immunoassay for the detection of Gentamycin. [Biosens Bioelectron. 49: 126-32.](#)
5. Ong, L.C. *et al.* (2014) Bacterial imaging with photostable upconversion fluorescent nanoparticles. [Biomaterials. 35 \(9\): 2987-98.](#)
6. Pivetal, J. *et al.* (2014) Micro-magnet arrays for specific single bacterial cell positioning [J. Magnetism and magnetic Materials 29 Sep \[Epub ahead of print\]](#)
7. Farka, Z. *et al.* (2015) Rapid Detection of Microorganisms Based on Active and Passive Modes of QCM [Sensors 15, 79-92](#)
8. Dayam RM *et al.* (2015) The Phosphoinositide-Gated Lysosomal Ca(2+) Channel, TRPML1, Is Required for Phagosome Maturation. [Traffic. 16 \(9\): 1010-26.](#)
9. Farka, Z. *et al.* (2015) Quartz crystal microbalance biosensor for rapid detection of aerosolized microorganisms. [Proc. SPIE 9455, Chemical, Biological, Radiological, Nuclear, and Explosives \(CBRNE\) Sensing XVI, 945507](#)
10. Bhokisham, N. *et al.* (2016) Modular Construction of Multi-Subunit Protein Complexes using Engineered Tags and Microbial Transglutaminase. [Metab Eng. May 26. pii: S1096-7176\(16\)30014-3. \[Epub ahead of print\]](#)
11. Kovář, D. *et al.* (2014) Detection of aerosolized biological agents using the piezoelectric immunosensor. [Anal Chem. 86 \(17\): 8680-6.](#)
12. VanGerven, N. *et al.* (2014) Secretion and functional display of fusion proteins through the curli biogenesis pathway. [Mol Microbiol. 91 \(5\): 1022-35.](#)
13. Rodrigues, D.M.C. *et al.* (2017) Sensitivity Analysis of Different Shapes of a Plastic Optical Fiber-Based Immunosensor for *Escherichia coli*: Simulation and Experimental Results. [Sensors \(Basel\). 17 \(12\) Dec 19 \[Epub ahead of print\].](#)

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

**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

**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

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M380630:210512'

Printed on 12 May 2021

© 2021 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)