

Datasheet: 4329-4906

**BATCH NUMBER 170351**

<b>Description:</b>	RABBIT ANTI ESCHERICHIA COLI
<b>Specificity:</b>	ESCHERICHIA COLI
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
ELISA	▪			1/2000
Western Blotting			▪	

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.

<b>Target Species</b>	Bacterial
<b>Product Form</b>	Purified IgG - liquid
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 5.0 mg/ml
<b>Immunogen</b>	A mixture of all antigenic serotypes.
<b>RRID</b>	AB_619412
<b>Specificity</b>	<b>Rabbit anti <i>Escherichia coli</i> antibody</b> recognizes <i>Escherichia coli</i> 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, O55, O111 and K12.

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## 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 380 72-7.](#)
7. Farka, Z. *et al.* (2014) Rapid Detection of Microorganisms Based on Active and Passive Modes of QCM [Sensors. 15 \(1\): 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. 38: 1-9.](#)
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 \[Epub ahead of print\].](#)

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## 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.

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/4329-4906">https://www.bio-rad-antibodies.com/SDS/4329-4906</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)

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