

## Datasheet: 4329-4911

<b>Description:</b>	RABBIT ANTI ESCHERICHIA COLI:Biotin
<b>Specificity:</b>	ESCHERICHIA COLI
<b>Format:</b>	Biotin
<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
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.

<b>Target Species</b>	Bacterial
<b>Product Form</b>	Purified IgG conjugated to Biotin - 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>	4.0 mg/ml
<b>Immunogen</b>	A mixture of all antigenic serotypes.

### 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, O55, O111 and K12.

### References

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- Salmonella* detection. [Biosens Bioelectron. 77: 32-9.](#)
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  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.](#)
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  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. \[Epub ahead of print\]](#)
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  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 \[Epub ahead of print\].](#)

<b>Storage</b>	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. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Shelf Life</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10303 available at: 10303: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf</a>
<b>Regulatory</b>	For research purposes only

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