

Datasheet: NB-47-00442-1ML

Description:	RABBIT ANTI ESCHERICHIA COLI:FITC
Specificity:	ESCHERICHIA COLI
Format:	FITC
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.

	Yes	No	Not Determined	Suggested Dilution
Immunofluorescence	▪			1/10 - 1/50

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Buffer Solution	Phosphate buffered saline		
Preservative	0.1 % Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 4.0 mg/ml		
Immunogen	A mixture of all antigenic serotypes.		
RRID	AB_616821		
Specificity	Rabbit anti <i>Escherichia coli</i> antibody 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, 055, 0111 and K12.

References

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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.](#)
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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. \[Epub ahead of print\]](#)
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

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.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only