

Datasheet: 8209-4006

BATCH NUMBER 174571

Description:	RABBIT ANTI SALMONELLA GROUP ANTIGEN
Specificity:	SALMONELLA GROUP ANTIGEN
Format:	Purified
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			▪	
Western Blotting			▪	
Immunofluorescence	▪			

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 - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 5.0 mg/ml
Immunogen	Mixture of <i>Salmonella enteritidis</i> , <i>S. typhimurium</i> and <i>S. heidelberg</i> .
RRID	AB_619545
Specificity	Rabbit anti <i>Salmonella</i> group antigen antibody recognizes a <i>Salmonella</i> group antigen.

Salmonella is a genus of the family *Enterobacteriaceae* populated by a variety of Gram negative rod-shaped bacteria, many of which are pathogenic and cause a range of diseases in humans. *Salmonellae* possess 3 major surface antigens: the H or flagellar antigen (phase 1 and 2), the O or somatic antigen (part of the LPS moiety) and the Vi or capsular antigen (referred to as K in other *Enterobacteriaceae*). *Salmonellae* also possess the LPS endotoxin characteristic of Gram negative bacteria. This LPS is composed of an O polysaccharide (O antigen) an R core and the endotoxic inner Lipid A.

Rabbit anti *Salmonella* group antigen antibody is polyvalent for *Salmonella* O and H antigens.

Rabbit anti *Salmonella* group antigen antibody is unabsorbed and may cross react with related *Enterobacteriaceae*.

References

1. Cloak, O.M. *et al.* (1999) Isolation and detection of *Listeria* spp, *Salmonella* spp and *Yersinia* spp using a simultaneous enrichment step followed by a surface adhesion immunofluorescent technique. [J Microbiol Methods. 39 \(1\): 33-43.](#)
2. Duffy, G. *et al.* (2000) A membrane-immunofluorescent-viability staining technique for the detection of *Salmonella* spp. from fresh and processed meat samples. [J Appl Microbiol. 89 \(4\): 587-94.](#)
3. Hunter, D.M. *et al.* (2010) Rapid detection and identification of bacterial pathogens by using an ATP bioluminescence immunoassay. [J Food Prot. 73: 739-46.](#)
4. Le, U.N. *et al.* (2011) Engineering and visualization of bacteria for targeting infarcted myocardium. [Mol Ther. 19 \(5\): 951-9.](#)
5. Ewald M *et al.* (2013) A robust sensor platform for label-free detection of anti-*Salmonella* antibodies using undiluted animal sera. [Anal Bioanal Chem. 405 \(20\): 6461-9.](#)
6. de Souza, S.O. *et al.* (2014) Osteomyelitis caused by *Salmonella enterica* serovar derby in boa constrictor. [J Zoo Wildl Med. 45 \(3\): 642-4.](#)
7. Kim, D.K. *et al.* (2014) Inverse agonist of estrogen-related receptor γ controls *Salmonella typhimurium* infection by modulating host iron homeostasis. [Nat Med. 20 \(4\): 419-24.](#)
8. Ewald, M. *et al.* (2015) A multi-analyte biosensor for the simultaneous label-free detection of pathogens and biomarkers in point-of-need animal testing. [Anal Bioanal Chem. 407 \(14\): 4005-13.](#)
9. Tian B *et al.* (2015) Blu-ray optomagnetic measurement based competitive immunoassay for *Salmonella* detection. [Biosens Bioelectron. 77: 32-39.](#)
10. Tian, B. *et al.* (2016) Multi-scale magnetic nanoparticle based optomagnetic bioassay for sensitive DNA and bacteria detection [Analytical Methods. 8 \(25\): 5009-16.](#)
11. Volpe, G. *et al.* (2016) Development and evaluation of an ELIME assay to reveal the presence of *Salmonella* in irrigation water: Comparison with Real-Time PCR and the Standard Culture Method. [Talanta. 149: 202-10.](#)
12. Tsougeni, K. *et al.* (2016) Plasma nanotextured polymeric lab-on-a-chip for highly efficient bacteria capture and lysis. [Lab Chip. 16 \(1\): 120-31.](#)
13. Cruz-Adalia, A. *et al.* (2016) T Cells Capture Bacteria by Transinfection from Dendritic Cells. [J Vis Exp. \(107\): e52976.](#)
14. Kastania, A. *et al.* (2017) Binding kinetics of bacteria cells on immobilized antibodies

in microfluidic channels: Modeling and experiments [Sensors and Actuators B: Chemical. 253: 247-57.](#)

15. Farka, Z. *et al.* (2018) Prussian Blue Nanoparticles as a Catalytic Label in a Sandwich Nanozyme-Linked Immunosorbent Assay. [Anal Chem. 90 \(3\): 2348-54.](#)

16. Schenk, F. *et al.* (2018) Development of a paper-based lateral flow immunoassay for simultaneous detection of lipopolysaccharides of *Salmonella* serovars. [Anal Bioanal Chem. 410 \(3\): 863-8.](#)

17. Tsougeni, K. *et al.* (2019) A modular integrated lab-on-a-chip platform for fast and highly efficient sample preparation for foodborne pathogen screening [Sensors and Actuators B: Chemical. 288: 171-9.](#)

18. Tsougeni, K. *et al.* (2019) A modular integrated lab-on-a-chip platform for fast and highly efficient sample preparation for foodborne pathogen screening [Sensors and Actuators B: Chemical. 288: 171-9.](#)

19. Angelopoulou, M. *et al.* (2021) Rapid Detection of *Salmonella typhimurium* in Drinking Water by a White Light Reflectance Spectroscopy Immunosensor. [Sensors \(Basel\). 21 \(8\): 2683.](#)

20. Makhneva, E. *et al.* (2018) Cyclopropylamine plasma polymer surfaces for label-free SPR and QCM immunosensing of *Salmonella* [Sensors and Actuators B: Chemical. 276: 447-455.](#)

21. Moon, C.M. *et al.* (2020) *In Vivo* Bioluminescence Imaging for Targeting Acute Hypoxic/Ischemic Small Intestine with Engineered *Salmonella typhimurium*. [Mol Ther Methods Clin Dev. 18: 484-492.](#)

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.
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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
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Health And Safety Information	Material Safety Datasheet documentation #10303 available at: https://www.bio-rad-antibodies.com/SDS/8209-4006
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

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

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