

Datasheet: 8209-4021

Description:	RABBIT ANTI SALMONELLA GROUP ANTIGEN:HRP
Specificity:	SALMONELLA GROUP ANTIGEN
Format:	HRP
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
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			1/200 - 1/1000
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.

Target Species	Bacterial
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative	0.002% Thiomersal
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Mixture of <i>Salmonella enteritidis</i> , <i>S. typhimurium</i> and <i>S. heidelberg</i> .
RRID	AB_619936
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. 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.](#)
2. 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.](#)
3. 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.](#)
4. 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.](#)
5. 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.](#)
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. Tian B *et al.* (2015) Blu-ray optomagnetic measurement based competitive immunoassay for *Salmonella* detection. [Biosens Bioelectron. 77: 32-39.](#)
8. 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.](#)
9. Le, U.N. *et al.* (2011) Engineering and visualization of bacteria for targeting infarcted myocardium. [Mol Ther. 19 \(5\): 951-9.](#)
10. 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.](#)
11. Cruz-Adalia, A. *et al.* (2016) T Cells Capture Bacteria by Transinfection from Dendritic Cells. [J Vis Exp. \(107\): e52976.](#)
12. Tian, B. *et al.* (2016) Multi-scale magnetic nanoparticle based optomagnetic bioassay for sensitive DNA and bacteria detection [Analytical Methods. 8 \(25\): 5009-16.](#)
13. 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.](#)
14. 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.](#)

15. 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.](#)

16. 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.](#)

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. 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.](#)

19. 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.](#)

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 #10095 available at: <https://www.bio-rad-antibodies.com/SDS/8209-4021>
10095

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

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)

'M381946:210512'

Printed on 25 Mar 2023

