

Datasheet: MCA2832

Description:	MOUSE ANTI SALMONELLA BROAD REACTIVITY
Specificity:	SALMONELLA BROAD REACTIVITY
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	5D12A
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

RRID AB_1125358

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			
Immunoblotting	▪			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species Bacterial

Product Form Purified IgG - liquid

Preparation Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen Heat inactivated *Salmonella paratyphi*.

Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the NS0/1, a subclone of the P3X63Ag8 myeloma cell line.
Specificity	<p>Mouse anti Salmonella Broad Reactivity antibody, clone 5D12A recognizes the core antigen of <i>Salmonella enterica</i>, serogroups A, B, C₁, C₂, D, E₁ and E₂. The core antigen bears the O antigen and is attached to lipid A. These three components together form the lipopolysaccharide (LPS), a major component of the outer membrane of Gram-negative bacteria. The LPS is an endotoxin and induces a strong immune response from the host. Its mutation or removal results in the death of the bacterial cell and as such is a prime target for antimicrobial drugs.</p> <p><i>Salmonella enterica</i>, causes typhoid fever, paratyphoid fever and foodborne illnesses.</p> <p>Mouse anti Salmonella Broad Reactivity antibody, clone 5D12A cross-reacts with serogroup A (<i>S. paratyphi</i> A), serogroup B (<i>S. typhimurium</i>), serogroup C₁ (<i>S. choleraesuis</i>), serogroup C₂, (<i>S. newport</i>), serogroup D (<i>S. enteritidis</i>), serogroup E₁ (<i>S. anatum</i>) and serogroup E₂ (<i>S. selandia</i>). It does not cross-react with <i>Escherichia coli</i> 055:B5, <i>E. coli</i> K12 or <i>Klebsiella pneumoniae</i>.</p>
References	<ol style="list-style-type: none"> 1. Marinis, J.M. <i>et al.</i> (2011) A Novel Motif in the Crohn's Disease Susceptibility Protein, NOD2, Allows TRAF4 to Down-regulate Innate Immune Responses. J Biol Chem. 286: 1938-50. 2. Lomakina G. Yu. <i>et al.</i> (2014) Synthesis and application of firefly luciferase antibody conjugates in a bioluminescent immunoassay of <i>Salmonella</i> cells Moscow University Chemistry Bulletin. 69 (2): 49-55. 3. Cruz-Adalia, A. <i>et al.</i> (2014) T cells kill bacteria captured by transinfection from dendritic cells and confer protection in mice. Cell Host Microbe. 15 (5): 611-22. 4. Hesse, M. <i>et al.</i> (2016) Immune response of turkey poult exposed at 1 day of age to either attenuated or wild <i>Salmonella</i> strains. Vet Immunol Immunopathol. 174: 1-10. 5. Braukmann, M. <i>et al.</i> (2016) Combination of competitive exclusion and immunisation with a live <i>Salmonella</i> vaccine in newly hatched chickens: Immunological and microbiological effects. Res Vet Sci. 107: 34-41.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),
[DyLight®800](#), [FITC](#), [HRP](#)

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