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

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 appropritate 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	**Mouse anti Salmonella Broad Reactivity antibody, clone 5D12A** recognizes the core antigen of *Salmonella enterica*, serogroups A, B, C_1, C_2, D, E_1 and E_2. 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. *Salmonella enterica*,causes typhoid fever, paratyphoid fever and foodborne illnesses. Mouse anti Salmonella Broad Reactivity antibody, clone 5D12A cross-reacts with serogroup A (S. paratyphi A), serogroup B (S. typhimurium), serogroup C_1 (S. choleraesuis.), serogroup C_2, (S. newport), serogroup D (S. enteriditis), serogroup E_1 (S. anatum) and serogroup E_2 (S. selandia). It does not cross-react with *Escherichia coli* 055:B5, *E. coli* K12 or *Klebsiella pneumoniae*.
References	1. Marinis, J.M. *et al.* (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. *et al.* (2014) Synthesis and application of firefly luciferase antibody conjugates in a bioluminescent immunoassay of *Salmonella* cells Moscow University Chemistry Bulletin. 69 (2): 49-55. 3. Cruz-Adalia, A. *et al.* (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. *et al.* (2016) Immune response of turkey poults exposed at 1 day of age to either attenuated or wild *Salmonella* strains. Vet Immunol Immunopathol. 174: 1-10. 5. Braukmann, M. *et al.* (2016) Combination of competitive exclusion and immunisation with a live Salmonella vaccine in newly hatched chickens: Immunological and microbiological effects. Res Vet Sci. 107: 34-41.
Storage	Store at +4^{o}C or at -20^{o}C if preferred. This product should be stored undiluted. 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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10040 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP

Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG1 (HCA036...)	HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

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