

Anti-Salmonella enteritidis (LPS) antibody, mouse monoclonal (se-02)

Product code	64-019		
Size	100 μg		
Storage	-20℃		
Concentration	1.0 mg/ml		
Buffer	PBS- with 50% glycerol		
Purity	Purified with Ab-Capture for IgM (ProteNova, Japan)		
Immunogen	Crude purified LPS from Salmonella enteritidis		
Isotype	Mouse IgM		
Reactivity	Reacts with LPS of Salmonella enteritidis and may react with other Salmonella		
	species		
Validation	Specificity has been validated by western blotting		
Application	Western blotting: x1/400-800 (Fig.1)		
Background	Salmonella enterica subsp. enterica serotype Enteritidis (S. enteritidis, SE) is		
	one of the major causative agents of human gastroenteritis. SE is found in		
	natural habitats like chicken egg and some animals. Salmonella enterica subsp.		
	enterica is classified into over 1500 serotypes on antigenic difference in		
	lipopolysaccharide (LPS) (O) and flagellar (H) antigens. LPS is a major		
	component of the outer surface of gram-negative bacteria, composed of a		
	hydrophobic lipid A, which anchors LPS to the membrane, a core		
	oligosaccharide region, and an O-polysaccharide polymer (O-chain) composed		
	of oligosaccharide-repeating units. While the LPS-core regions are relatively		
	conserved among gram-negative organisms, there is a substantial difference in		
	the composition of the O-chain repeating units, which leads to a large antigenic		
	diversity in O-antigens.		
Please note: All pro	ducts are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		

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Data Images: 64-019 Anti-Salmonella enteritidis (LPS) antibody, mouse monoclonal (se-02)

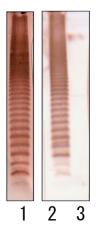


Fig.1. Western blotting of LPS from S. enteritidis (SE) with MAb (se-02).

(1) Purified LPS (10 µg/ml), (2) crude extract of SE and (3) crude extract of Escherichia coli were applied to WB. The antibody was used at 1/200 dilution. The HRP-conjugated goat anti-mouse IgM was used at 1/2,000 as the second and visualized by DAB (3,3'-Diaminobenzidine).

Table 1. Reactivity of MAb (se-02) with various food poisoning bacteria.

	ELISA	WB
Salmonella Enteritidis (ATCC13076)	+	LPS
Other 18 isolated strains	+	+
Salmonella Typhimurium	+	
Campylobacter jejuni/coli	_	_
Vibrio parahaemolyticus	_	_
Escherichia coli (ETEC)	_	_
EHEC (0157:H7)	_	_
Staphylococcus aureus	_	
Clostridium perfringens	_	
Bacillus cereus	_	
LPS from S. Enteritidis*	+	LPS
Purified LPS (from S. Enteritidis)	+	LPS

^{*}Sigma-Aldrich, Inc.

Related product: 64-018 Anti- Salmonella enteritidis LPS antibody, mouse monoclonal (se-01) **References** This antibody has not yet been used in publication.