

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

<b>Product code</b>	64-019
<b>Size</b>	100 µg
<b>Storage</b>	-20°C
<b>Concentration</b>	1.0 mg/ml
<b>Buffer</b>	PBS <sup>-</sup> with 50% glycerol
<b>Purity</b>	Purified with Ab-Capture for IgM (ProteNova, Japan)
<b>Immunogen</b>	Crude purified LPS from <i>Salmonella enteritidis</i>
<b>Isotype</b>	Mouse IgM
<b>Reactivity</b>	Reacts with LPS of <i>Salmonella enteritidis</i> and may react with other <i>Salmonella</i> species
<b>Validation</b>	Specificity has been validated by western blotting
<b>Application</b>	Western blotting: x1/400-800 (Fig.1)
<b>Background</b>	<p><i>Salmonella enterica</i> subsp. <i>enterica</i> serotype Enteritidis (<i>S. enteritidis</i>, SE) is one of the major causative agents of human gastroenteritis. SE is found in natural habitats like chicken egg and some animals. <i>Salmonella enterica</i> subsp. <i>enterica</i> 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.</p>
<p>Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.</p>	

**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
<i>Salmonella Enteritidis</i> (ATCC13076)	+	LPS
Other 18 isolated strains	+	+
<i>Salmonella Typhimurium</i>	+	
<i>Campylobacter jejuni/coli</i>	—	—
<i>Vibrio parahaemolyticus</i>	—	—
<i>Escherichia coli</i> (ETEC)	—	—
EHEC (O157:H7)	—	—
<i>Staphylococcus aureus</i>	—	
<i>Clostridium perfringens</i>	—	
<i>Bacillus cereus</i>	—	
LPS from <i>S. Enteritidis</i> *	+	LPS
Purified LPS (from <i>S. Enteritidis</i> )	+	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.