

Anti-*Escherichia coli* LPS antibody, mouse monoclonal (ec-02)

Product code	64-024
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS ⁻ with 50% glycerol
Purity	Purified IgG fraction with protein A
Immunogen	Crude extract of <i>Escherichia coli</i> (<i>E. coli</i>) cells
Isotype	mouse IgG2bk
Reactivity	Reacts with lipopolysaccharide (LPS) of <i>E. coli</i> . Does not react with LPS of <i>Salmonella enteritidis</i> .
Validation	Specificity has been validated by ELISA and western blotting
Application	1. Western blotting: x1/400-800 (Fig.1) 2. Immunofluorescence: x1/400 (Fig.2)
Background	Pathogenic <i>Escherichia coli</i> (<i>E. coli</i>) is one of the major causative agents of food poisoning. Lipopolysaccharide (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.
Data Link	GenBank: CP009072.1 (ATCC 25972)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 64-024 Anti-Escherichia coli LPS antibody, mouse monoclonal (ec-02)

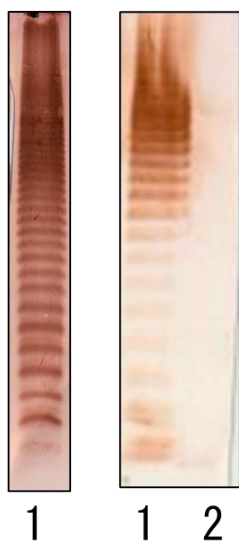


Fig.1. Western blotting (WB) of LPS from *E. coli* with ec-02 antibody

Crude extract bacterial cells were applied to WB. (1) crude extract of *E. coli*, (2) crude extract of *Salmonella enteritidis*. The ec-02 antibody was used at 1/200 dilution. The HRP-conjugated goat anti-mouse IgG was used at 1/3,000 as the second antibody and visualized by DAB (3,3'-Diaminobenzidine). They showed similar band patterns characteristic of LPS, O-chain repeating unit.

References This antibody has not yet been used in publication.

Related products: 64-018 Anti-*Salmonella enteritidis* LPS antibody, mouse monoclonal (se-1)