Anti-Salmonella typhimurium LPS antibody [1E6]
ab8274

Overview

Product name
Anti-Salmonella typhimurium LPS antibody [1E6]
Description
Mouse monoclonal [1E6] to Salmonella typhimurium LPS
Host species
Mouse
Specificity
This antibody is directed against lipopolisaccharides of *Salmonella typhimurium*
Tested applications
Suitable for: Flow Cyt, WB, Dot blot, ELISA, ICC/IF, IHC-Fr
Immunogen
Lipopolysaccharides of *Salmonella typhimurium*
General notes
This antibody is used for the detection of LPS of *Salmonella typhimurium*

Properties

Form
Liquid
Storage instructions
Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer
PBS with 0.1% sodium azide, pH 7.4
Purity
Protein A purified
Primary antibody notes
This antibody is used for the detection of LPS of *Salmonella typhimurium*
Clonality
Monoclonal
Clone number
1E6
Myeloma
Sp2/0
Isotype
IgG1
Light chain type
unknown

Applications

Our Abpromise guarantee covers the use of ab8274 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Salmonellae are Gram-negative, facultatively anaerobic bacteria of the family Enterobacteriaceae, made up of nonspore-forming rods, usually motile with flagella. Salmonella enterica serovar Typhimurium is among the most common Salmonella serovars causing Salmonellosis food poisoning. S. typhimurium has a less alarming public image than S. typhi (which causes typhoid), but is a bigger health problem worldwide. Salmonellae possess 3 major antigens; the "H" or flagellar antigen (phase 1 & 2), the "O" or somatic antigen (part of the LPS moiety) and the "Vi" or capsular antigen (referred to as "K" in other Enterobacteriaceae). Salmonellae also possess the LPS endotoxin characteristic of Gram-negative bacteria. This LPS is composed of an "O" polysaccharide ("O" antigen) an "R" core and the endotoxic inner "Lipid A". Endotoxins evoke fever and can activate complement, kinin and clotting factors.

### Application

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| Flow Cyt | | Use at an assay dependent concentration. PubMed: 17442963  
**ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |
| WB | | Use at an assay dependent concentration. |
| Dot blot | | Use at an assay dependent concentration. |
| ELISA | | Use at an assay dependent concentration. |
| ICC/IF | | Use at an assay dependent concentration. |
| IHC-Fr | | Use at an assay dependent concentration. |

### Target

**Relevance**

Salmonellae are Gram-negative, facultatively anaerobic bacteria of the family Enterobacteriaceae, made up of nonspore-forming rods, usually motile with flagella. Salmonella enterica serovar Typhimurium is among the most common Salmonella serovars causing Salmonellosis food poisoning. S. typhimurium has a less alarming public image than S. typhi (which causes typhoid), but is a bigger health problem worldwide. Salmonellae possess 3 major antigens; the "H" or flagellar antigen (phase 1 & 2), the "O" or somatic antigen (part of the LPS moiety) and the "Vi" or capsular antigen (referred to as "K" in other Enterobacteriaceae). Salmonellae also possess the LPS endotoxin characteristic of Gram-negative bacteria. This LPS is composed of an "O" polysaccharide ("O" antigen) an "R" core and the endotoxic inner "Lipid A". Endotoxins evoke fever and can activate complement, kinin and clotting factors.

### Images

**Electron microscopy image of ultrathin cryosections of Salmonella paratyphi using ab8274 (1/100). For further experimental details please refer to abreview.**

**Immunohistochemistry (Frozen sections) - Anti-Salmonella typhimurium LPS antibody [1E6] (ab8274)  
This image is courtesy of an anonymous Abreview**
Western blot - Anti-Salmonella typhimurium LPS antibody [1E6] (ab8274) Image courtesy of Aaron White by Abreview.

All lanes : Anti-Salmonella typhimurium LPS antibody [1E6] (ab8274) at 1/1000 dilution

Lane 1 : Whole cell polysaccharides from S. Enteritidis 27655-3b
Lane 2 : Whole cell polysaccharides from S. Enteritidis Sali8
Lane 3 : Whole cell polysaccharides from S. Typhimurium ATCC 14028s
Lane 4 : Whole cell polysaccharides from S. Typhimurium SL1344

Lysates/proteins at 100000000 cells per lane.

Secondary
All lanes : AP conjugated goat anti-mouse polyclonal at 1/4000 dilution

Gels were (A) silver-stained or (B) Western blotted using the Anti-Salmonella typhimurium 0-4 antibody [1E6] (ab8274) as the primary antibody. Although equal amounts of cellular material were detected by silver staining, only the S. Typhimurium samples were recognized by the 1E6 antibody on the corresponding Western blot.

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