

Salmonella Group A, B, and D O-Antigen Monoclonal Antibodies

ORDERING INFORMATION

Catalog no.	Clone No.	MAb Subtype	Size
18922	10B10G	IgG1	200ug
18923	4G7C	IgG1	200ug
18924	10D9H	IgG1	200ug
18925	5D12A	IgG1	200ug

Format: Protein G-purified antibody in PBS, pH 7.4, 0.09% sodium azide.

BACKGROUND

Salmonella is recognized as a major pathogen of both animals and humans and is the cause of typhoid fever, paratyphoid fever, and the foodborne illness salmonellosis. In many countries, *Salmonella* is the leading cause of foodborne outbreaks and infections. The numerous serotypes of *Salmonella* are classified based on surface antigens. The O antigen type is determined based on oligosaccharides associated with the lipopolysaccharide component of the outer membrane. *Salmonella* O antigens can be divided into two major groups: those which have *N*-acetylglucosamine (GlcNAc) or *N*-acetylgalactosamine (GalNAc) and those which have galactose (Gal) as the first sugar in the O unit.

SPECIFICATION SUMMARY

Antigen: Heat-inactivated *Salmonella paratyphi* (Group A), *Salmonella typhimurium* (Group B), and *Salmonella enteritidis* (Group D).

Host Species: Mouse

Specificity: These antibodies recognize *Salmonella* O antigens. See table below.

APPLICATIONS

ELISA: Endusers should determine optimal antibody concentrations relative to their preparations of bacterial cells.

Catalog No.	Serotype Recognized	Cross-Reactivity										O type	
		1	2	3	4	5	6	7	8	9	10		
18922	A	+	-	-	-	-	-	-	-	-	-	-	O-2
18923	D	-	-	+	-	-	-	-	-	-	-	-	O-9
18924	A,B,D	+	+	+	-	-	+/-	+/-	-	-	-	-	O-12
18925	Pan	+	+	+	+	+	+	+	-	-	-	-	Core

- | | |
|----------------------------------|---------------------------------|
| 1 <i>Salmonella paratyphi</i> | 6 <i>Salmonella anatum</i> |
| 2 <i>Salmonella typhimurium</i> | 7 <i>Salmonella selandia</i> |
| 3 <i>Salmonella enteritidis</i> | 8 <i>E. coli</i> O55:B5 |
| 4 <i>Salmonella choleraesuis</i> | 9 <i>E. coli</i> K12 |
| 5 <i>Salmonella newport</i> | 10 <i>Klebsiella pneumoniae</i> |

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is compatible with the assay system.

STORAGE AND STABILITY

Store product at 4°C.

For in vitro investigational use only. Not intended for use in therapeutic or diagnostic procedures.