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## **BP2235**

## Polyclonal Antibody to Lipopolysaccharide (LPS gram negative bacteria) - Purified

Alternate names:	LPS, Lipid A
Quantity:	1 ml
Concentration:	4-5 mg/ml (OD280 nm, E0.1% = 1.4)
Background:	Lipid A is a lipid component of an endotoxin held responsible for toxicity of Gram- negative bacteria. Sensing of lipid A by the human immune system may also be critical for the onset of immune responses to Gram-negative infection, and for the subsequent successful fight against the infection. Lipid A is located at one end of the lipopolysaccharide (LPS, also called endotoxin) molecule, and anchors the LPS to the outer membrane of a Gram-negative bacteria. Many of the immune activating abilities of LPS can be contributed to the lipid A unit. It is a very potent stimulant of the immune system, activating cells (for example, monocytes or macrophages) at picogram per milliliter quantities. When present in the body at high concentrations during a Gram-negative bacterial infection, it may cause shock and death by an "out of control" excessive immune reaction.
Host:	Goat
Immunogen:	Whole cells prep of Lipid A from <i>E. coli</i> O157
Format:	State: Liquid purified Ig fraction (> 95% pure) Purification: Sodium Sulphate Precipitation and Ion Exchange Chromatography Buffer System: 0.01M PBS, pH 7.2 Preservatives: 0.09% Sodium Azide Stabilizers: None
Applications:	Indirect Immunofluoresence: > 1/100 (against members of the Entero-bacteriaciae). May also be used in place of neat antiserum in almost any appropriate antibody- based technique. Also suitable for conjugation purposes. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody recognizes Lipid A / Lipopolysaccharide (LPS Gram Negative Bacteria). Cross-reactive with numerous members of the Enterobacteriaciae: <i>Pseudomonas</i> <i>aeruginosa, Klebsiella pneumoniae, E. coli O157, Salmonella enteriditis, Enterobacter</i> <i>aerogenes, E. hermanii, Yersinia enterocolitica</i> and Shigella sonnei.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Product Citations:	<b>Purchased from Acris:</b> 1. Sünderhauf, A;Skibbe, K;Preisker, S;Ebbert, K;Verschoor, A;Karsten, CM;Kemper, C;Huber-Lang, M;Basic, M;Bleich, A;Büning, J;Fellermann, K;Sina, C;Derer, S. Regulation of epithelial cell expressed C3 in the intestine - Relevance for the

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	pathophysiology of inflammatory bowel disease? Mol. Immunol. 2017, 227-238, 90. PubMed PMID: 28843904.
General Readings:	1. Gibson DL, White AP, Snyder SD, Martin S, Heiss C, Azadi P, et al. Salmonella produces an O-antigen capsule regulated by AgfD and important for environmental persistence. J Bacteriol. 2006 Nov;188(22):7722-30. PubMed PMID: 17079680.

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