

Hycult biotechnology

LPS, Lipid A, Clone WN1 222-5, mAb

Catalog No.	HM6001	Quantity:	100 µg
Description:	WN1 222-5 is a broadly cross-reacting and cross-neutralizing anti-core LPS monoclonal antibody. It recognizes a common and exposed epitope in the core region of <i>E. coli</i> , <i>Salmonella</i> spp., and some other members of the Enterobacteriaceae, whereas it lacks reactivity with free lipid A. The antibody binds to both LPS and heat-killed bacteria. Binding of WN1 222-5 to LPS inhibits Limulus amoebocyte lysate assay activity and monokine secretion. It neutralizes the pyrogen response of rabbits and protects mice against LPS induced lethality in a D-GaIN model. Furthermore the antibody activates complement as assessed in a passive hemolyse test.		
Specificity:	LPS, Lipid A		
Host:	Mouse		
Isotype:	IgG _{2a}		
Clone:	WN1 222-5		
Formulation:	Sterile culture medium containing approximately 100 µg antibody with a low endotoxin level.		
Applications	The monoclonal antibody WN1 222-5 can be used for biological inhibition assays and immuno assays. Furthermore the antibody WN1 222-5 can be used for immunohistology on paraffin sections and Western blotting. For immunohistology and Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. For neutralization of biological activity dilutions have to be made according to the amounts endotoxin to be inactivated.		
Storage & Stability:	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.		
References:	<ol style="list-style-type: none">1. Di Padova, FE et al; Identification of widely cross-reactive and cross-protective anti-LPS core monoclonal antibodies (Mabs). <i>Infect Immun</i> 1993, <i>61</i>:38632. Pollack, M et al; Lipopolysaccharide (LPS)-specific monoclonal antibodies regulate LPS uptake and LPS-induced tumor necrosie factor-alpha responses by human monocytes. <i>J Infect Dis</i> 1995, <i>172</i>: 7943. Bahrami, S et al; Monoclonal antibody to endotoxin attenuates hemorrhage-induced lung injury and mortality in rats. <i>Crit Care Med</i> 1997, <i>25</i>: 10304. Pollack, M et al; Dual effects of lipopolysaccharide (LPS) antibodies on cellular uptake of LPS and LPS-induced proinflammatory functions. <i>J Immunol</i> 1997, <i>151</i>: 35195. Muller-Loennies, S et al; Identification of a cross-reactive epitope widely present in lipopolysaccharide from enterobacteria and recognized by the cross protective monoclonal antibody WN1 222-5. <i>J Biol Chem</i> 2003, <i>278</i>: 256186. Tsuneyoshi, N et al; The functional and structural properties of MD-2 required for lipopolysaccharide binding are absent in MD-1. <i>J Immunol</i> 2005, <i>174</i>: 340		



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Also available:

HM2045: Monoclonal antibody against kDaO, clone 20

HM2046: Monoclonal antibody against free Lipid A, clone 43

HM2047: Monoclonal antibody against Polymixin B, clone 45

HM2048: Monoclonal antibody against Lipoteichic acid, clone 55

HM6002: Monoclonal antibody against TSST-1, clone Mab5

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