## ANTIBODIES ONLINE

## Datasheet for ABIN2191916 anti-Lipoteichoic Acid antibody

Publications



## Overview

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Quantity:	200 µg
Target:	Lipoteichoic Acid (LTA)
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Lipoteichoic Acid antibody is un-conjugated
Application:	Immunofluorescence (IF), Western Blotting (WB), Immunoassay (IA), Flow Cytometry (FACS)
Product Details	
Clone:	55
Endotoxin Level:	Low endotoxin level
Target Details	
Target:	Lipoteichoic Acid (LTA)
Alternative Name:	Lipoteichoic Acid (LTA Products)
Target Type:	Chemical
Background:	The monoclonal antibody 55 recognizes lipoteichoic acid (LTA). LTA, a glycerol phosphate surface polymer, is a component of the envelope of Gram-positive bacteria. LTA is anchored via its glycolipids to the membrane and carries a polysaccharide chain extending into the peptidoglycan layer of the cell wall. LTA is released spontaneously into the culture medium during growth of gram-positive bacteria. LTA functions as an immune activator with

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN2191916 | 07/26/2024 | Copyright antibodies-online. All rights reserved. characteristics very similar to lipopolysaccharide (LPS) from Gram-negative bacteria. LTA binds to CD14 and triggers activation predominantly via Toll-like receptor 2. Although LTA is internalized and traffics to the Golgi, the cellular activation in response to LTA occurs at the cell surface. 1 Immunogen Microbial mixture of Streptococcus sobrims HG961, HG962, HG970, and HG977

## Application Details

Application Notes:	For 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. The
	typical starting working dilution is 1:50. 1
Restrictions:	For Research Use only
Handling	
Buffer:	1 mL(> 200 μg/mL) culture medium with a low endotoxin level containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Product should be stored at 4 °C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.
Publications	
Product cited in:	Hirose, Murosaki, Fujiki, Yamamoto, Yoshikai, Yamashita: "Lipoteichoic acids on Lactobacillus
	plantarum cell surfaces correlate with induction of interleukin-12p40 production." in:
	Microbiology and immunology, Vol. 54, Issue 3, pp. 143-51, (2010) (PubMed).
	Jimenez-Dalmaroni, Xiao, Corper, Verdino, Ainge, Larsen, Painter, Rudd, Dwek, Hoebe, Beutler,
	Wilson: "Soluble CD36 ectodomain binds negatively charged diacylglycerol ligands and acts as
	a co-receptor for TLR2." in: <b>PLoS ONE</b> , Vol. 4, Issue 10, pp. e7411, (2009) (PubMed).
	Yajima, Takahashi, Shimazu, Urano-Tashiro, Uchikawa, Karibe, Konishi: "Contribution of
	phosphoglucosamine mutase to the resistance of Streptococcus gordonii DL1 to
	polymorphonuclear leukocyte killing." in: <b>FEMS microbiology letters</b> , Vol. 297, Issue 2, pp. 196-
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Hashimoto, Tabuchi, Sakurai, Kutsuna, Kurokawa, Awasaki, Sekimizu, Nakanishi, Shiratsuchi: " Identification of lipoteichoic acid as a ligand for draper in the phagocytosis of Staphylococcus aureus by Drosophila hemocytes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 183, Issue 11, pp. 7451-60, (2009) (PubMed).

Gründling, Schneewind: "Synthesis of glycerol phosphate lipoteichoic acid in Staphylococcus aureus." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 104, Issue 20, pp. 8478-83, (2007) (PubMed).

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