Datasheet for ABIN1108055

anti-Lipoteichoic Acid antibody

10 Publications

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Overview

Quantity:	0.2 mg
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), Enzyme Immunoassay (EIA), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Microbial mixture of Streptococcus sobrims HG961, HG962, HG970, and HG977
Clone:	55
Isotype:	IgG3
Endotoxin Level:	Low Endotoxin

Target Details

Target:	Lipoteichoic Acid (LTA)
Abstract:	LTA Products
Target Type:	Chemical
Background:	LTA, a glycerol phosphate surface polymer, is a component of the envelope of Gram-positive

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Target Details

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 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.

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.2 mg/mL
Buffer:	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:	Store undiluted at 2-8 °C.

Publications

Product cited in:

Droeser, Hirt, Viehl, Frey, Nebiker, Huber, Zlobec, Eppenberger-Castori, Tzankov, Rosso, Zuber, Muraro, Amicarella, Cremonesi, Heberer, Iezzi, Lugli, Terracciano, Sconocchia, Oertli, Spagnoli et al.: "Clinical impact of programmed cell death ligand 1 expression in colorectal cancer. ..." in: **European journal of cancer (Oxford, England : 1990)**, Vol. 49, Issue 9, pp. 2233-42, (2014) (PubMed).

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).

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).

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: **PLoS ONE**, 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: **FEMS microbiology letters**, Vol. 297, Issue 2, pp. 196-202, (2009) (PubMed).

There are more publications referencing this product on: Product page

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