Datasheet for ABIN2191916

anti-Lipoteichoic Acid antibody

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Overview

Quantity:	200 µg
Target:	Lipoteichoic Acid (LTA)
Host:	Mouse
Clonality:	Monoclonal
Application:	Immunofluorescence (IF), Western Blotting (WB), Flow Cytometry (FACS), Immunoassay (IA)

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 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

Target Details

	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:	Nogee, Dunbar, Wert, Askin, Hamvas, Whitsett: "A mutation in the surfactant protein C gene associated with familial interstitial lung disease." in: **The New England journal of medicine**, Vol. 344, Issue 8, pp. 573-9, (2001) (PubMed). Ross, Ikegami, Steinhilber, Jobe: "Surfactant protein C in fetal and ventilated preterm rabbit lungs." in: **The American journal of physiology**, Vol. 277, Issue 6 Pt 1, pp. L1104-8, (2000) (PubMed). Nogee, Wert, Proffit, Hull, Whitsett: "Allelic heterogeneity in hereditary surfactant protein B (SP-B) deficiency." in: **American journal of respiratory and critical care medicine**, Vol. 161, Issue 3 Pt 1, pp. 973-81, (2000) (PubMed). There are more publications referencing this product on: Product page