CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Lipid A, clone 26-5		
Catalog number	HM6009		
Lot number	-	**Expiry date**	-
Volume	1 ml	**Amount**	100 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	**Concentration**	100 µg/ml
Host Species	Mouse IgG2b	**Conjugate**	None
Endotoxin	N.A.	**Purification**	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes						•		
No								
N.D.	•	•	•	•	•		•	•

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

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 1:10.

General Information

Description

The monoclonal antibody 26-5 recognizes lipid A. The lipid A domain of lipopolysaccharide (LPS) is a unique, glucosamine-based phospholipid that makes up the outer monolayer of the outer membrane of most gram-negative bacteria. Lipid A is responsible for the endotoxic activities of LPS, and a heteropolysaccharide. The heteropolysaccharide generally consists of an oligosaccharide termed the core region. This core region is in some bacterial families composed of repeating oligosaccharide units, the so-called O chain. The lipid A moiety of LPS is detected by the TLR4/MD2 receptor of the mammalian innate immune system. Picomolar levels of lipid A induce macrophages to synthesize potent mediators of inflammation, such as TNF-α and IL-1β. Furthermore, lipid A activates the production of costimulatory molecules required for adaptive immunity and stimulates tissue factor production in mononuclear and endothelial cells. All these events are desirable for clearing local infections.

References

1. Erich, T et al; Binding characteristics and cross-reactivity of three different antilipid A monoclonal antibodies. J of Immunol 1989, *143*: 4053

Storage&stability

Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

Precautions

For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Robbert Zwinkels

Date
16/03/2018

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.