

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Polymyxin B, clone 45	Expiry date	-
Catalog number	HM2047-200UG	Amount	~200 µg
Lot number	-	Concentration	>200 µg/ml
Volume	-	Conjugate	None
Formulation	Culture medium+0.02%NaN3	Purification	N.A.
Host Species	Mouse IgM		
Endotoxin	N.A.		
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 45 reacts with Polymyxin B. The antibody binds to free Polymyxin B as well as to Polymyxin B already bound to LPS. The peptide antibiotic Polymyxin B (PMB) binds to bacterial endotoxin (lipopolysaccharide, LPS). The interaction of PMB with LPS involves ionic forces between amino groups in PMB and negatively charged phosphate and carboxyl groups in the lipid A-Kdo region. PMB has relevance for endotoxin research in at least two ways: first, PMB reacts with LPS of many species regardless of varied serospecificity, and thus it can be used as a general probe for measuring or detecting LPS or lipid A. Second, binding of PMB to LPS may result in neutralization of the detrimental effects of LPS either in vitro or in vivo. Monoclonal antibody 45 enables the possibilities to study quantitatively the interaction of PMB and LPS.
References	1. Appelmek, B et al; Polymyxin B-horseradish peroxidase conjugates as tools in endotoxin research. Anal Biochem 1992, 207: 311
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
Brenda Teunissen

Date
29/11/2019

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