

Non WHO Reference Material
Anti-Meningococcal Factor H Binding Protein Variant 1
Monoclonal Antibody (JAR5)
NIBSC code: 13/216
Instructions for use
(Version 4.0, Dated 22/07/2021)

This material is not for in vitro diagnostic use.

1. INTENDED USE

This reagent can be used for identification and to assess expression levels of fHbp in meningococci. This mAb was raised in mice against the factor H binding protein (fHbp) of meningococcal strain MC58. The epitope for this mAb is in the N-terminus (B domain) of strains that express fHbp in the variant 1 group.

2. CAUTION

This preparation is not for administration to humans or animals in the human food chain.

As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

3. UNITAGE

There is no assigned unitage for this mAb. When used in a whole cell ELISA, a dilution of 1 in 100-1000 gives a positive result. The isotype of the mAb is IgG2b.

4. CONTENTS

Country of origin of biological material: United Kingdom.
Each ampoule contains the freeze-dried powder from 1 ml of cell culture supernatant concentrated approximately 60 times. Antibody is of murine origin.

5. STORAGE

Unopened ampoules should be stored at -20°C. The contents of the ampoule should be rehydrated with 1 ml sterile distilled water. Store reconstituted aliquots at -20°C and avoid excessive freeze-thawing.

Please note: because of the inherent stability of lyophilized material, NIBSC may ship these materials at ambient temperature.

6. DIRECTIONS FOR OPENING

DIN ampoules have an 'easy-open' coloured stress point, where the narrow ampoule stem joins the wider ampoule body. Various types of ampoule breaker are available commercially. To open the ampoule, tap the ampoule gently to collect material at the bottom (labelled) end and follow manufacturers instructions provided with the ampoule breaker.

7. USE OF MATERIAL

No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution.

Reconstitute the contents of each ampoule with 1 ml sterile distilled water. Ensure the entire content of each ampoule is fully resuspended.

8. STABILITY

Reference materials are held at NIBSC within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label.

The recommended working concentrations were correct at the time of manufacture. No information is available on long term stability of the material. Stability of the reconstituted material should be determined by the user. Users who have data supporting any deterioration in the

characteristics of any reference preparation are encouraged to contact NIBSC.

9. REFERENCES

Welsch JA, Rossi R, Comanducci M, Granoff DM (2004). J Immunol 172(9):5606-15.
Beernink PT, Welsch JA, Bar-Lev M, Koeberling O, Comanducci M, Granoff DM. (2008). Infect Immun 76(9): 4232-40.
Beernink PT, LoPasso C, Angiolillo A, Felici F, Granoff D. (2009). Mol Immunol 46(8-9):1647-53.
Malito E, Lo Surdo P, Veggi D, Santini L, Stefek H, Brunelli B, Luzzi E, Bottomley MJ, Beernink PT, Scarselli M (2016). Biochem J. 473(24): 4699-4713.

10. ACKNOWLEDGEMENTS

This material was produced from a hybridoma cell line kindly provided by Dan Granoff of the Childrens Hospital Oakland Research Institute.

11. FURTHER INFORMATION

Further information can be obtained as follows:
This material: enquiries@nibsc.org
WHO Biological Standards:
<http://www.who.int/biologicals/en/>
JCTLM Higher order reference materials:
<http://www.bipm.org/en/committees/jc/jctlm/>
Derivation of International Units:
http://www.nibsc.org/standardisation/international_standards.aspx
Ordering standards from NIBSC:
<http://www.nibsc.org/products/ordering.aspx>
NIBSC Terms & Conditions:
http://www.nibsc.org/terms_and_conditions.aspx

12. CUSTOMER FEEDBACK

Customers are encouraged to provide feedback on the suitability or use of the material provided or other aspects of our service. Please send any comments to enquiries@nibsc.org

13. CITATION

In all publications, including data sheets, in which this material is referenced, it is important that the preparation's title, its status, the NIBSC code number, and the name and address of NIBSC are cited and cited correctly.

14. MATERIAL SAFETY SHEET

Classification in accordance with Directive 2000/54/EC, Regulation (EC) No 1272/2008: Not applicable or not classified

Physical and Chemical properties		
Physical appearance: Freeze dried powder	Corrosive:	No
Stable: Yes	Oxidising:	No
Hygroscopic: No	Irritant:	No
Flammable: No	Handling:	See caution, Section 2
Other (specify):	No special precautions	
Toxicological properties		
Effects of inhalation:	Not established, avoid inhalation	
Effects of ingestion:	Not established	
Effects of skin absorption:	Not established, avoid contact with skin	



Suggested First Aid	
Inhalation:	Seek medical advice
Ingestion:	Seek medical advice
Contact with eyes:	Wash with copious amounts of water Seek medical advice
Contact with skin:	Wash thoroughly with water
Action on Spillage and Method of Disposal	
Spillage of ampoule contents should be taken up with absorbent material wetted with an appropriate disinfectant. Rinse area with an appropriate disinfectant followed by water. Absorbent materials used to treat spillage should be treated as biological waste.	

15. LIABILITY AND LOSS

In the event that this document is translated into another language, the English language version shall prevail in the event of any inconsistencies between the documents.

Unless expressly stated otherwise by NIBSC, NIBSC's Standard Terms and Conditions for the Supply of Materials (available at http://www.nibsc.org/About_Us/Terms_and_Conditions.aspx or upon request by the Recipient) ("Conditions") apply to the exclusion of all other terms and are hereby incorporated into this document by reference. The Recipient's attention is drawn in particular to the provisions of clause 11 of the Conditions.

16. INFORMATION FOR CUSTOMS USE ONLY

Country of origin for customs purposes*: United Kingdom * Defined as the country where the goods have been produced and/or sufficiently processed to be classed as originating from the country of supply, for example a change of state such as freeze-drying.
Net weight: 4.5g.
Toxicity Statement: Toxicity not assessed
Veterinary certificate or other statement if applicable.
Attached: No