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Diagnostik & molekulare Diagnostik



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-PorA protein [MN14C11.6] Bulk Size Ab03267-21.0-BT

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgM, Kappa

Clone Number: MN14C11.6

Alternative Name(s) of Target: PIA; Protein IA; Class 1 protein; P1.7; P1.7 serosubtype; Major outer membrane protein P.IA; serogroup A; serogroup B

UniProt Accession Number of Target Protein: P57041; E6MXW0

Published Application(s): functional assay, WB, ELISA

Published Species Reactivity: Neisseria meningitidis serogroup A and B

Immunogen: The original antibody was generated immunizing mice with outer membrane protein preparations from Neisseria meningitidis.

Specificity: This antibody recognizes the P1.7 loop of the PorA protein of Neisseria meningitidis. Epitope mapping revealed that this antibody specifically binds a sequence 'ASGQ'. This antibody can bind both A and B serotype of Neisseria meningitidis. The major outer membrane protein PorA of Neisseria meningitidis is the target for bactericidal serosubtyping antibodies and is currently considered as a potential vaccine candidate against group B meningococcal disease.

Application Notes: This antibody showed both bactericidal and opsonophagocytic for P1.7-expressing meningococci. The lowest concentration resulting in >50% killing of strain 44/76-SL was reported to be 0.5 µg/l. The opsonic activity of this antibody was measured against strain 44/76-SL with human peripheral blood polymorphonuclear leukocytes (PMN) as the effector cells and human serum as the complement source. This antibody demonstrated high opsonophagocytic activity with >80% of PMNs exhibiting measurable RB at a concentration of the MAbs of <10 µg/ml. This antibody was opsonic for the test strain 44/76-SL at a concentration of 0.2 µg/ml (PMID: 10722576). This antibody is not capable of binding meningococcal isolates expressing some variations of the P1.7 family especially P1.7b in a whole cell ELISA (PMID: 10512717). This antibody can be used in the detection of outer membrane protein of N. meningitidis strains like 44/76 using an ELISA (PMID: 12753502). This antibody was also used for the analysis of isogenic target strains derived from H44/76 (B:15:P1.7,16) in a western blot assay (PMID: 8698504).

Antibody First Published in: Abdillahi et al. Definition of meningococcal class 1 OMP subtyping antigens by monoclonal antibodies. FEMS Microbiol Immunol. 1988 Dec;1(3):139-44.

[PMID:3152545](#)

Note on publication: The paper defines antigenic determinants on the class 1 outer membrane proteins using antibodies.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Affinity Purified using a recombinant lectin column

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.