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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-PorA protein [MN12H2] Standard Size Ab03271-23.0

This chimeric rabbit 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: Rabbit IgG, Kappa

Clone Number: MN12H2

Alternative Name(s) of Target: PorA; Major outer membrane protein P.IA; P1.16 serosubtype; PIA; Protein IA; Class 1 protein; serosubtype P1.16; serogroup B

UniProt Accession Number of Target Protein: E6MXW0

Published Application(s): functional assay, ELISA

Published Species Reactivity: Neisseria meningitidis serogroup B

Immunogen: The original antibody was generated immunizing mice with outer membrane protein preparations from meningococcal serogroup B, serosubtype P1.7,16 reference strain H44/76.

Specificity: This antibody is specific for the amino acid sequence 'TKDTNNNL' derived from the VR2 sequence of sero-subtype P1.16 (residues 180-187) from meningococcal strain H44/76. This antibody binds epitope P1.16 located on PorA surface loop 4 from the serogroup B meningococci of the type Neisseria meningitidis.

Application Notes: This antibody shows high bactericidal activity. This antibody binds the bacterial membrane surface protein resulting in activation of the classical complement pathway and subsequent lysis of the cell (PMID: 9880525). A study on antibacterial activity of human chimeric IgG1 (chIgG1) and chimeric IgG3 (chIgG3) version of this antibody showed that the serum bactericidal activity of chIgG1 was greater than that of chIgG3, and chIgG3 was better than chIgG1 in terms of opsonophagocytic (PMID: 11342648). This antibody provided protection in vivo against the prototype P1.7,16a, variably against the P1.7,16b and P1.7,16c, but not against the P1.7,16d variants in an infant rat infection model (PMID: 11273739). This antibody and the chimeric hIgG1 and hIgG3 derivatives all induced efficient bactericidal activity in vitro in the presence of human or infant rat complement and augmented bacterial clearance in complement-sufficient HsdBr/Han:WIST rats, while the hIgG4 was unable to do so. In C6-deficient PVG/c- rats, lacking complement-mediated bacterial lysis, the augmentation of bacterial clearance this antibody and chimeric hIgG1 version was impaired compared to that in the syngeneic complement-sufficient PVG/c+ rat strain (PMID: 16622217).

Antibody First Published in: Elsen et al. Bactericidal antibody recognition of a PorA epitope of Neisseria meningitidis: crystal structure of a Fab fragment in complex with a fluorescein-conjugated peptide.

Proteins. 1997 Sep;29(1):113-25. [PMID:9294871](#)

Note on publication: Describes the crystal structure of the Fab version of this antibody in complex with a peptide derives from the sero-subtype P1.16 of Neisseria meningitidis.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.