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Diagnostik & molekulare Diagnostik



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Factor H binding protein [1A12 (9B)] Standard Size Ab03892-21.0

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

Isotype and Format: Mouse IgM, Kappa

Clone Number: 1A12 (9B)

Alternative Name(s) of Target: fHbp; GNA1870; Genome-derived Neisseria antigen 1870; Lipoprotein 2086

UniProt Accession Number of Target Protein: Q9JXV4; Q6VRZ6

Published Application(s): crystallography, ELISA, FC

Published Species Reactivity: Neisseria meningitidis

Immunogen: The original antibody was generated from the peripheral blood plasmablast cells from three humans immunized with vaccines containing FHbp. The natively paired VH and VL genes were expressed in Escherichia coli to obtain recombinant antibody fragments (Fabs).

Specificity: This antibody binds a surface exposed epitope on N. meningitidis FHbp, a virulence factor critical for surviving of the bacteria in the human host. This antibody binds equally well to fHbp variants, including representative variants in variant groups 1, 2 or 3. FHbp protein is a bacterial surface lipoprotein that binds host (human) complement factor H (fH, gene CFH). Neisseria meningitidis is the leading global cause of meningitis and sepsis.

Application Notes: The original Fab version of this antibody binds N. meningitidis fHbp protein with a very high binding affinity of $K_d = 19\text{pM}$. This antibody is broadly cross reactive and binds FHbp sequence variants from groups 1, 2, and 3. In an ELISA, this antibody shows concentration dependent binding to recombinant FHbp (ID 1), which is the variant group 1 antigen (PMID: 26106082). Flow cytometry was used to identify binding of this antibody to surface of live bacteria of N. meningitidis strains serogroup B strain H44/76, which expresses FHbp ID 1 (PMID: 26106082). In functional assays, IgG version of 1A12 has bactericidal activity against strains expressing each of the three fHbp variants (PMID: 29410413; 29487324).

Antibody First Published in: Beernink et al. Functional Analysis of the Human Antibody Response to Meningococcal Factor H Binding Protein. mBio. 2015 May-Jun; 6(3): e00842-15. [PMID:26106082](#)

Note on publication: Describes the generation and characterization of human anti-FHbp repertoire from three adults immunized with FHbp vaccines.

Product Form

Size: 50 µg Purified antibody.

Purification: Affinity Purified using a recombinant lectin column

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.