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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 [JAR41] Standard Size Ab03894-21.0

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: JAR41

Alternative Name(s) of Target: fHbp; GNA1870; Genome-derived Neisseria antigen 1870; Lipoprotein 2086; JAR 41

UniProt Accession Number of Target Protein: E6MV22

Published Application(s): ELISA, FC

Published Species Reactivity: Neisseria meningitidis

Immunogen: The original antibody was generated from a human factor H (fH) transgenic BALB/c mouse immunized with a recombinant fHbp ID 1 (variant group 1).

Specificity: This antibody binds an epitope located on a conserved region of N-terminal domain of 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: This antibody broadly cross-reacts with fHbp sequence variants from all N. meningitidis variant groups. In combination with second non-bactericidal anti-fHbp mAb like JAR 5, JAR 41 elicited complement-mediated bactericidal activity in vitro, and augmented passive protection against meningococcal bacteremia in human fH transgenic rats (PMID: 22461972). JAR 41 shows concentration-dependent binding to fHbp ID 1 (variant group 1), fHbp ID 77 (variant group 2) and fHbp ID 28 (variant group 3) in an ELISA. This antibody specifically binds fHbp and does not cross react with other meningococcal surface proteins like NadA and GNA1030. The ability of this antibody to bind 21 fHbp sequence variants was also measured by ELISA. Flow cytometry was used to identify binding of this antibody to surface of live bacteria from N. meningitidis strains (PMID: 22461972). It was also found that JAR 41 augments passive protective activity of anti-fHbp mAb JAR 5 against bacteremia caused by group B strain H44/76 in human fH transgenic infant rats (PMID: 22461972).

Antibody First Published in: Vu DM, et al. A broadly cross-reactive monoclonal antibody against an epitope on the n-terminus of meningococcal fHbp. Sci Rep. 2012; 2: 341. [PMID:22461972](https://pubmed.ncbi.nlm.nih.gov/22461972/)

Note on publication: Describes the generation and characterization of a broadly cross reactive antibody towards fHbp of N. meningitidis.

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.