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Anti-Capsular polysaccharide [CA4] Ab03586-11.0-BT

Isotype and Format: Human IgG2, Kappa

Clone Number: CA4

Alternative Name(s) of Target: Hib PS

UniProt Accession Number of Target Protein:

Published Application(s): functional assay, ELISA

Published Species Reactivity: Haemophilus influenzae

Immunogen: This antibody was raised by immunizing a 43-year-old white male using a subcutaneous injection of 40 mg of Hib PS vaccine. Five days later, mononuclear cells (MNC) were isolated from 60 ml of peripheral blood with Lymphoprep. Two cell populations were used for RNA isolation: unfractionated MNC and a Hib1d-1-enriched population, isolated with magnetic beads.

Specificity: This antibody is specific for the capsular polysaccharide protein of Haemophilus influenzae. This protein is part of the polysaccharide layer that lies outside the cell envelope. Haemophilus influenzae causes bacteremia, pneumonia, epiglottitis and acute bacterial meningitis.

Application Notes: An ELISA was performed on h Hib PS oligomers coupled to human serum albumin using the human version of this antibody (Reason, Wagner and Lucas, 1997; PMID:8975921). The human version of this antibody was used for an ELISA on Hib PS-poly-L-lysine. Furthermore, an infant rat assay was used to evaluate in vivo protection of this antibody, Five- to 7-day-old rats received a subcutaneous injection of either purified IgG1 or IgG2 anti-Hib PS antibodies, purified MAb CA4, or, as a negative control, a human IgG2 myeloma protein. Eighteen to 24 h later, blood was taken and assayed quantitatively on chocolate agar for the presence of Hib organisms. Additionally, this antibody was evaluated by an ELISA for rheumatoid factor activity and for binding to histones, chromatin, and denatured DNA (Lucas, Larrick and Reason, 1994; PMID:8063404).

Antibody First Published in: Lucas, Larrick and Reason Variable region sequences of a protective human monoclonal antibody specific for the Haemophilus influenzae type b capsular polysaccharide. Infect Immun. 1994 Sep;62(9):3873-80. [PMID:8063404](#)

Note on publication: A hybridoma secreting a human immunoglobulin G2 kappa monoclonal antibody (MAb) specific for the capsular polysaccharide of Haemophilus influenzae type b (Hib) was isolated.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification:

Protein A affinity purified

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.