PRODUCT SPECIFICATION



HYB 352-02 Anti Filamentous Hemagglutinin (FHA)

Mouse monoclonal antibody

| Article No. | 69603 (0.2 mL), 101057 (1.0 mL) | | |
|---------------------|---|--|---|
| Product Name | HYB 352-02 Anti Filamentous Hemagglutinin (FHA) | | |
| Clone | 12. 6F8 | | |
| Subclass | lgG1 / kappa | | |
| Description | Concentration: 1 d Solvent: F | Protein-A purified mg/mL ± 10%, based on A ₂ letails. PBS, pH 7.2 – 7.4 18 °C or colder | ₂₈₀ . See Certificate of Analysis for |
| Antigen | Filamentous hemagglutinin (FHA) of <i>Bordetella pertussis</i> is a 220 kDa large adhesive surface protein which together with the pertussis toxin (PTx) facilitates attachment of the bacteria to human ciliated cells and macrophages during the course of whooping cough (1). FHA can recognize and bind the leukocyte-restricted adhesion molecule (CD11b/CD18, Mac-1) suggesting that FHA mimics a natural ligand on endothelial cells for this integrin which enables FHA to competitively interfere with CD18-dependent leukocyte migration to the central nervous system (2). Anti FHA antibodies have been shown to be able to permeabilize the blood-brain barrier (1). | | |
| Immunogen | Whole cell Pertussis vaccine + FHA. | | |
| Specificity | The antibody is specific for FHA from <i>Bordetella pertussis</i> . | | |
| Epitope Specificity | In a competitive ELISA HYB 352-02 (3) is inhibited by the other monoclonal antibody developed in this series (HYB 352-01) and they are therefore not suited for use in a catching ELISA. | | |
| Reactivity | HYB 352-02 (Mab clone 12.6F8) reacts with determinants in the C-terminal end of FHA (4, 6) also known as carbohydrate recognition domain D (5). Cross-reactivity to cerebral microvessels has been reported (1). | | |
| Culture Medium | Dulbecco's modified Eagle's medium with 10% fetal calf serum. | | |
| Fusion Partner | X63-Ag8.653. | | |
| Immunization | Female Balb/c mice were immunized i.p. with immunogen. | | |
| Application | Method ELISA Flow cymetry Immunoblotting Immunofluorescence Immunohistochemistry Immunoprecipitation | Usability Yes Yes Yes nd. Yes Yes | References 4 7 1, 2, 4, 6 1 2 |

@ ssi-antibodies@ssi.dk
w ssi.dk

www.ssi.dk/antibodies

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Mouse monoclonal antibody



References

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2) Starzyk, R.M., Rosenow, C., Frye, J., Leismann, M. et al. (2000). J Infect Dis. 181, 181-187.

3) HYB 352-02 is known from the literature as "12.6F8".

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6) Leininger E, Bowen S, Renauld-Mongénie G, Rouse JH, Menozzi FD, Locht C, Heron I, Brennan MJ. Immunodominant domains present on the Bordetella pertussis vaccine component filamentous hemagglutinin. J Infect Dis. 1997 Jun;175(6):1423-31

7) Coutte L, Antoine R, Drobecq H, Locht C, Jacob-Dubuisson F. Subtilisin-like autotransporter serves as maturation protease in a bacterial secretion pathway. EMBO J. 2001 Sep 17;20(18):5040-8

Conditions

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