Pseudomonas-Reactive Alginate Monoclonal Antibodies

ORDERING INFORMATION

Catalog No.	Clone No.	Size
15725	3G4-1F5	100ug
15726	4B10-1C5	100ug

Format: Protein G-purified antibody in phosphate-buffered saline, pH 7.4, 50% glycerol, 0.1% sodium azide.

BACKGROUND

Pulmonary infection by mucoid, alginate-producing *Pseudomonas aeruginosa* is the leading cause of mortality among patients suffering from cystic fibrosis. During early childhood, cystic fibrosis patients are colonized by multiple bacterial pathogens including nonmucoid *P. aeruginosa*. The appearance of mucoid isolates indicates progression to chronic infections. Recent evidence indicates that *P. aeruginosa* is most resistant to antibiotics when the infecting cells are present as a biofilm, as they appear to be in the lungs of cystic fibrosis patients.

DESCRIPTION

Antigen: Sodium alginate conjugated to KLH.
Host: Mouse
Antibody subtype: IgG1
Reactivity:
A. Pharmacological grade seaweed alginate.
B. Sonicated pool of 17 whole cell serotypes (O1-O17) of *P. aeruginosa*.
C. Alginate produced by *P. aeruginosa* strains PAO1 and PAO581.
(HD Yu et al, Marshall University, Huntington, WV)
D. Sputum samples from cystic fibrosis patients.
(HD Yu et al, Marshall University, Huntington, WV)

These antibodies do not cross-react with similar polysaccharides such as amylopectin, amylose, collagen, or glycogen.

APPLICATIONS

ELISA: Use at 0.5-20ug/ml with alginate on the solid phase. Working concentrations for these antibodies are dependent on the purity and concentration of alginate in samples tested.

STORAGE AND STABILITY

These antibodies are stable for at least one (1) year at -20^{o}C. Store in appropriate aliquots to avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not for use in diagnostic or therapeutic applications

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