

Title (en)

MONOCLONAL ANTIBODIES SPECIFIC FOR STREPTOCOCCUS MUTANS, AND USES THEREOF

Title (de)

MONOKLONALE ANTIKÖRPER SPEZIFISCH FÜR STREPTOCOCCUS MUTANS, UND DEREN VERWENDUNGEN

Title (fr)

ANTICORPS MONOCLONAUX SPECIFIQUES DE *S*(STREPTOCOCCUS MUTANS) ET LEURS UTILISATIONS

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Application

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Abstract (en)

[origin: WO0011037A1] The invention describes three monoclonal IgG antibodies, referred to as SWLA1, SWLA2, and SWLA3, which appear to recognize a species-specific lipooligosaccharide or lipopolysaccharide on the cell surface of *S.mutans*. The invention also describes a rapid method of detection of *S.mutans* without the need for prior growth of the bacteria in culture. The invention further describes method of utilizing these antibodies for rapidly quantitatively detecting *S.mutans*. These methods are sensitive enough to detect the presence of a single *S.mutans* bacterial cell. These methods can be widely used in the clinical diagnosis and treatment of dental caries in humans.

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