Adjuvant Effects of Cholera Toxin and Enterotoxin Type I on IgG2a and IgG2b Profile Following Intranasal Immunization Using Soluble Protein of Toxoplasma gondii

Abstrak:

Immunization by intranasal route using soluble proteins from Toxoplasma gondii tachyzoite as antigen (STAg) alone or in combination with mucosal adjuvant have shown different profile of IgG2a and IgG2b on sera. Cholera toxin (CT) and Heat Labile Enterotoxin type I (LT I) were used as mucosal adjuvant. Each mice received 10 µg STAg alone or with 1 µg of adjuvant (CT and LT I respectively) by twice immunization at 2 weeks interval. The sera were collected every two weeks for two month periods started on 2th week post first immunization. CT and LT I were unable to improved IgG2a and IgG2b against STAg on sera as shown by immunoassay using ELISA. However, LT I was found slightly improve the IgG on intestinal flushing.

Keyword:

Enterotoxin type I, Cholera Toxin, Soluble Protein, Toxoplasma gondii