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(71) Applicant *(for all designated States except US)*: F. HOFFMANN-LA ROCHE AG [CH/CH]; Grenzacherstrasse 124, CH-4002 Basle (CH).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: NAGY, Zoltan [DE/US]; 38 Marion Road, Verona, NJ 07044 (US). VIDOVIC, Damir [HR/US]; 2 Holly Drive, Fairfield, NJ 07004 (US).

(74) Agents: BRAUN, Axel et al.; P.O. Box 3255, CH-4002 Basle (CH).

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(54) Title: MONOCLONAL ANTIBODY FRAGMENTS HAVING IMMUNOSUPPRESSANT ACTIVITY

(57) Abstract

The invention comprises monovalent mAb fragments (Fab) of mAb which have the ability of downregulate HLA-DR expression on antigen presenting cells. The Fab fragments can downregulate such HLA-DR expression without the cytotoxicity of the parent mAb or of bivalent fragments ($F(ab)'_2$) of the mAb. The Fab fragments of the invention are therefore potent, class II MHC-specific immunosuppressive compounds without cytotoxic side effects.