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(71) Applicant *(for all designated States except US)*: M & E BIOTECH A/S [DK/DK]; Kogle Allé 6, DK–2970 Hørsholm (DK).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: STEINAA, Lucilla [DK/DK]; Viktoriagade 28, 3. th., DK–1655 København V (DK). MOURITSEN, Søren [DK/DK]; Lindevangsvej 24, DK–3460 Birkerød (DK). NIELSEN, Klaus, Gregorius [DK/DK]; Lykkesborg Allé 15, DK–2860 Søborg (DK). HAANING, Jesper [DK/DK]; Biskop Svanes Vej 2E, DK–3460 Birkerød (DK). LEACH, Dana [US/DK]; Ved Store Dyrehave 44, DK–3400 Hillerød (DK). DALUM, Iben [DK/DK]; Olgasvej 13, DK–2970 Hørsholm (DK). GAUTAM, Anand [GB/DK]; Ved Store Dyrehave 22, st.tv., DK–3400 Hillerød (DK). BIRK, Peter [DK/DK]; Rudolph Berghsgade 5, DK–2100 København ø (DK). KARLSSON, Gunilla [SE/DK]; Collinsgade 6A, 3. tv., DK–2100 København ø (DK).

(74) Agent: PLOUGMANN, VINGTOFT & PARTNERS A/S; Sankt Annae Plads 11, P.O. Box 3007, DK–1021 Copenhagen K (DK).

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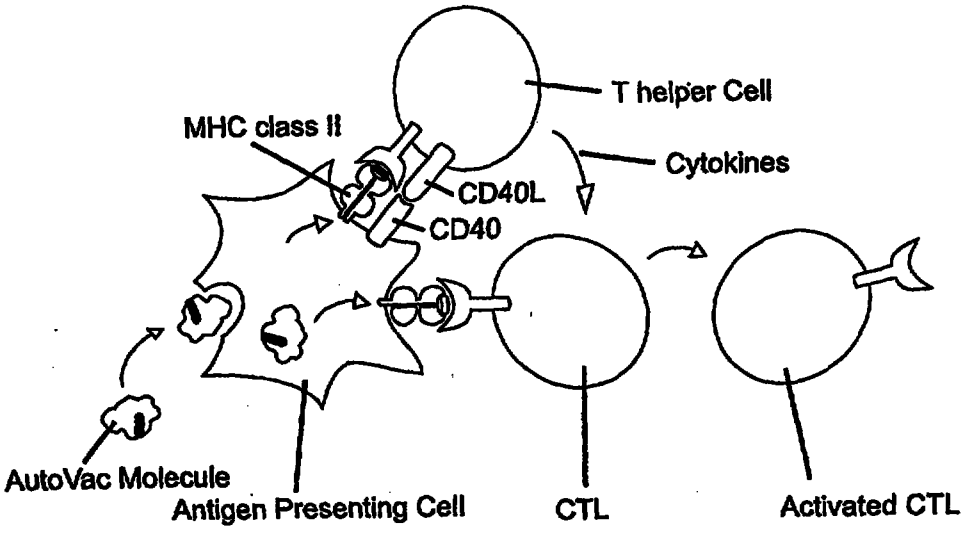

(57) Abstract

A method is disclosed for inducing cell–mediated immunity against cellular antigens. More specifically, the invention provides for a method for inducing cytotoxic T–lymphocyte immunity against weak antigens, notably self–proteins. The method entails that antigen presenting cells are induced to present at least one CTL epitope of the weak antigen and at the same time presenting at least one foreign T–helper lymphocyte epitope. In a preferred embodiment, the antigen is a cancer specific antigen, e.g. PSM, Her2, or FGF8b. The method can be exercised by using traditional polypeptide vaccination, but also by using live attenuated vaccines or nucleic acid vaccination. The invention furthermore provides immunogenic analogues of PSM, Her2 and FGF8b, as well as nucleic acid molecules encoding these analogues. Also vectors and transformed cells are disclosed. The invention also provides for a method for identification of immunogenic analogues of weak or non–immunogenic antigens.