

## *Anti Idiotypic Vaccines*







**Anti Idiotypic Vaccines**

Anti-idiotypic vaccines comprise antibodies that have three-dimensional immunogenic regions, designated idiotopes, that consist of protein sequences that bind to cell receptors. Idiotoxes are aggregated into idiotypes specific of their target antigen.

**Anti-idiotypic vaccine - Wikipedia**

Anti-idiotypic Antibody Vaccines. The basic antibody (immunoglobulin) structure consists of two heavy chains and two light chains covalently linked by disulfide bonds (Fig. 1). Each heavy and light chain is made up of a variable domain and one (light chain) or three (heavy chains) constant domains.

**Anti-idiotypic Antibody Vaccines | The Health Science**

vaccine 1. (Medicine) a suspension of dead, attenuated, or otherwise modified microorganisms (viruses,... 2. (Medicine) (originally) a preparation of the virus of cowpox taken from infected cows... 3. (Medicine) ( modifier ) of or relating to vaccination or vaccinia. 4. (Computer Science) ...

**Anti-idiotype vaccine - definition of anti-idiotype ...**

Anti-Idiotype Vaccines The use of anti-idiotype (Id) antibodies as vaccines to stimulate antitumor immunity is one of several promising immunologic approaches to the therapy of cancer. Extensive studies in animal tumor models have demonstrated the efficacy of anti-Id vaccines in preventing tumor growth and curing mice with established tumors.

**Anti-Idiotype Vaccines - Creative Biolabs**

anti-idiotype vaccine listen (AN-tee-IH-dee-oh-TIPE vak-SEEN) A vaccine made of antibodies that see other antibodies as the antigen and bind to it. Anti-idiotype vaccines can stimulate the body to produce antibodies against tumor cells.

**Definition of anti-idiotype vaccine - NCI Dictionary of ...**

anti-idiotypic vaccines for glycopeptides containing taca A subset of TAA of carbohydrate nature have been identified and called tumor-associated carbohydrate antigens (TACA; Hakomori, 1989 ). TACA have been described to be expressed specifically on tumor cells as compared to normal tissues due to an aberrant glycosylation in tumor cells ( Singhal and Hakomori, 1990 ).

**Anti-idiotypic antibodies as cancer vaccines: achievements ...**

Monoclonal anti- idiotype vaccines, by mimicking individual epitopes, could provide this immunization. Where the antigen was not a peptide or protein: anti-idiotypic antibodies could mimic the structure and conformation of, say, carbo= hydrate antigen epitopes.

**Anti-idiotype vaccines - ScienceDirect**

Kennedy RC, Eichberg JW, Lanford RE, Dreesman GR. Anti-idiotypic antibody vaccine for type B viral hepatitis in chimpanzees. *Science*. 1986 Apr 11; 232 (4747):220-223. Kennedy RC, Ionescu-Matiu I, Sanchez Y, Dreesman GR. Detection of interspecies idiotypic cross-reactions associated with antibodies to hepatitis B surface antigen. *Eur J Immunol*.

**Idiotypic vaccines and infectious diseases.**

Anti-idiotypic antibodies can be generated to bind specifically to one monoclonal antibody drug. These highly specialized antibodies can be used to set up pharmacokinetic (PK) assays in different formats to measure free or total drug levels in preclinical and clinical samples, or as positive controls in ADA assays.

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