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unicus

Karlsburg

Biotechnology - Research - Development

History

UNICUS Karlsburg is a biotech company in Northern Germany. UNICUS Karlsburg was formed 2005 by a group of researchers of the former Institute of Diabetes „Gerhardt Katsch” in Karlsburg (later Institute of Pathophysiology, Ernst-Moritz-Arndt University of Greifswald). Founders and staff members have extensive experience in the generation of monoclonal antibodies as well as in the development of immunoassays for antigen and antibody determination, placing special emphasis on autoimmune diseases. UNICUS offers a variety of services for the research efforts of academic institutions as well as pharmaceutical and biotech companies.

CUSTOM MONOCLONAL ANTIBODY GENERATION

Development of monoclonal antibodies to haptens, peptides or proteins

- Immunisation/boosting/bleeding of Balb/c mice and ELISA test for antibody titer
- Fusion of spleen cells with myeloma cells, cultivation in selective media and ELISA screening test for antigen specific hybridomas
- Cloning, recloning and cell propagation
- Specification of isotype and test for mycoplasma
- Cryoconservation of stable antigen specific cells

DEVELOPMENT AND EVALUATION OF IMMUNOASSAYS FOR ANTIBODY AND ANTIGEN DETERMINATION

- Radioimmunoassays using ¹²⁵Iodine-labeled antigens or antibodies
- Enzyme-linked immunosorbent assays
- Chemiluminescence immunoassays

MODIFICATION OF PROTEINS OR ANTIGEN

- Enzyme labeling of antibodies
- Labeling of antibodies with biotin
- Affinity chromatography
- Fragmentation of antibodies; production of F(ab)- and F(ab')₂-fragments
- Conjugation of peptides with KLH, BSA, ovalbumin or other carriers



Cooperation partner



InVivo BioTech Services GmbH

your partner for monoclonal antibody production, recombinant proteins and cell line development