

Polyclonal Antibody Production Services

Charles River offers polyclonal antibodies production on different species (rabbits, rodents, guinea pigs, sheep) and services as antigen synthesis, purification, analysis in cooperation with Squarix Biotechnology GmbH. Depending of your needs, you have the choice between complete packages or services modules.

Packages

Complete Production Package I

Antigen

- Peptide synthesis (purity >80%, 5-10mg, up to 15 AA included)
- Support in selecting the peptide
- Conjugation to KLH, BSA or OVA (2 mg peptide, 20 mg KLH)

Immunization:

- 2 SPF rabbits, 70 days protocol
- 4 injections per rabbit
- 1 prebleed, 2 tests sera and 1 final bleed

Complete Production Package II

Antigen + Immunization as Complete Package I + Analysis

- Serum titer control by ELISA

Complete Production Package III

Antigen + Immunization as Complete Package I + Purification

- Preparation of a HYDRA-antigen affinity column (1 ml matrix)
- Immunoaffinity isolation of monospecific antibody from 50 ml serum
- Sequential elution of up to 2 fractions of different affinity
- Purification control of monospecific antibodies
- Detailed documentation, chromatograms

Analysis

- Quality control of monospecific antibody by ELISA

Services Modules

- Antigen (design, synthesis, conjugation)
- Immunization
- Purification of serum antibodies (isolation of total immunoglobulin fraction or isolation of antigen specific)
- Preparation of affinity matrices
- Labeling of polyclonal antibodies
- Fragmentation of antibodies
- Test development

For more information or to submit a specific request, please contact us at askcharlesriver@crl.com.