



Custom Humanized Antibody

The process of "humanization" is usually applied to monoclonal antibodies developed for administration to humans. Humanized antibodies are antibodies from non-human species whose protein sequences have been modified to increase their similarity to the antibody variants produced naturally in humans.

Mouse monoclonal antibodies (mAbs) potentially limiting their application for humans; whereas, Humanized antibodies can overcome these problems and are considered to be a promising alternative therapeutic agent. Humanized antibodies have advantages over the mouse monoclonals; the immunogenicity of the mAb is reduced (since much of the immune response occurs against the mouse Ig constant region); the human C region allows for human effect or functions to take place; and the serum half-life of the mAb in humans is significantly increased.

Procedure:

Bioinformatics analysis

3D structure modeling and identification of back mutations

Human germlines selection

In silico CDR-grafting

Sequence optimization

Codon optimization and gene synthesis

Subcloning into expression vector

Transient expression

Purification

QC analysis

Affinity Determination with soluble antigen

Material Supplied: Designed humanized antibody sequences; Purified humanized antibody samples for in house test; Detailed report

Quality Control: SDS-PAGE >95%; SEC-HPLC detection; Endotoxin Level less than 1EU/mg

Competitive Price

Fast Turnaround Time (only 5-6 weeks)

Affinity Guaranteed (no cost if fail to reach the guaranteed affinity)

Catalog No.	400003
Size	
Product Category	Custom Antibody

www.realgenelabs.com

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