

## Customized mAb discovery Service



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## About Bio Bench

Bio Bench is a CRO (Contract Research Organization) company focusing on customized antibody and protein services together with downstream assays. Since 2013, Bio Bench has supported more than 60 research units for their unique R&D projects.

Now, Bio Bench launched a series of high quality products generated from its talented service team. Please contact us for more information: [info@bio-bench.com](mailto:info@bio-bench.com).

## Bio Bench Advantages

Experienced team members from Roche, Genscript, Charles River, Abbvie and Wuxi Apptec.

Automated platform together with cutting edge technology improve efficiency and quality.

Professional project management, we understand researchers' needs.

AAALAC certified animal lab and GMP approved lab environment guarantee the quality of your order.

## Bio Bench service unit

Gene Operation	Protein and Antigen	Antibody and Library	Antibody Engineering	Cell Assay
<ul style="list-style-type: none"> <li>• Gene synthesis and subcloning</li> <li>• Fab-to-IgG rapid synthesis</li> <li>• DNA phage library</li> </ul>	<ul style="list-style-type: none"> <li>• Lab scale to pilot scale protein production and purification</li> <li>• E.Coli expression system</li> <li>• HEK293 expression system</li> <li>• CHO expression system</li> <li>• High expression CHO system</li> <li>• Membrane protein expression</li> <li>• Protein tagging</li> <li>• Peptide antigenic epitope</li> </ul>	<ul style="list-style-type: none"> <li>• Human naive antibody library construct and screening</li> <li>• Human synthesis antibody library construct and screening</li> <li>• Human disease antibody library construct and screening</li> <li>• Llama antibody library construct and screening</li> <li>• Hybridoma monoclonal antibody</li> </ul>	<ul style="list-style-type: none"> <li>• Antibody sequencing</li> <li>• Affinity maturation</li> <li>• Antibody humanization</li> <li>• Fab/scFv antibody synthesis</li> <li>• Bi-specific antibody</li> </ul>	<ul style="list-style-type: none"> <li>• ADCC/CDC</li> <li>• Tumor microenvironment and regulation</li> <li>• Cell proliferation and inhibition</li> <li>• Apoptosis</li> <li>• Receptor-ligand binding assay</li> <li>• Immune cell activation assay</li> <li>• Whole cell binding assay</li> <li>• FACS/WB/IHC</li> <li>• Antibody affinity assay</li> <li>• Epitope mapping</li> </ul>

## Immunized Mouse Antibody Banking



Mouse mAb is still the most widely used mAb in research, diagnostic and drug discovery. Bio bench has built up a mature production line for the researchers to develop their unique mAb.

Service and Time Line	guarantee	Starting Material	Deliverables	Price
AB210102 100-million clones antibody banking	1+ clones ELISA KD<20nM	Peptide/protein or DNA/peptide/protein sequence. Stable cell line. NOTE: Please contact us for a detailed "list of material" regarding to your unique project.	<ul style="list-style-type: none"> <li>Minimum 1 antibody gene sequence.</li> <li>100µg purified antibody for each clone.</li> <li>QC and Report.</li> </ul>	Inquiry
AB210103 1-billion clones antibody banking	3+ clones ELISA KD<20nM	Peptide/protein or DNA/peptide/protein sequence. Stable cell line. NOTE: Please contact us for a detailed "list of material" regarding to your unique project.	<ul style="list-style-type: none"> <li>Minimum 10 antibody gene sequences.</li> <li>100µg purified antibody for each clone.</li> <li>QC and Report.</li> </ul>	Inquiry

Email to [info@bio-bench.com](mailto:info@bio-bench.com) if you need special service (10-billion clones antibody bank) for Mouse mAb service.

## Immunized Llama Antibody Banking



Heavy-chain antibody is found existing naturally in camelid animals and shark. This breaking discovery lead to a new type of antibody, so called single domain antibody or nanobody. Nanobody is now becoming a new antibody tool in drug discovery, in vivo diagnostic, cell research and protein crystallization.

Service and Time Line	Guarantee	Starting Material	Deliverables	Price
AB210403 Standard mAb banking	10 <sup>8</sup> clones/ bank ELISA KD<20nM	Peptide/protein or DNA/peptide/protein sequence. Stable cell line. NOTE: Please contact us for a detailed "list of material" regarding to your unique project.	<ul style="list-style-type: none"> <li>Minimum 1 antibody gene sequence.</li> <li>100µg purified antibody for each clone.</li> <li>10 copies of the antibody bank.</li> <li>QC and report.</li> </ul>	Inquiry
AB210404 Advanced mAb banking	10 <sup>9</sup> clones/ Bank ELISA KD<20nM	Peptide/protein or DNA/peptide/protein sequence. Stable cell line. NOTE: Please contact us for a detailed "list of material" regarding to your unique project.	<ul style="list-style-type: none"> <li>Minimum 5 antibody gene sequence.</li> <li>100µg purified antibody for each clone.</li> <li>10 copies of the antibody bank.</li> <li>QC and report.</li> </ul>	Inquiry

Email to [info@bio-bench.com](mailto:info@bio-bench.com) if you need special service for Llama mAb bank construction service.

## Human Naive Antibody



Seeking mAb directly from human (healthy/patient) nature antibody bank is a more efficient method to acquire drug-potential antibody. The target antibody does not have any immunotoxicity and is free of any humanization procedure.

Derived from more than 1000 healthy persons' PBMCs, a 10<sup>11</sup>-clone size human naive antibody bank is built up through Bio Bench technology. This bank theoretically covers all of the antigens (10<sup>7</sup> different type). We are looking forward to helping you to find the target antibody!

Service and Time Line	Guarantee	Starting Material	Deliverables	Price
AB210302 10-billion clones antibody bank	ELISA KD<20nM	Peptide/protein or DNA/peptide/protein sequence. Stable cell line. NOTE: Please contact us for a detailed "list of material" regarding to your unique project.	<ul style="list-style-type: none"> <li>1~3 antibody sequences.</li> <li>100µg purified antibody for each clone.</li> <li>QC and report.</li> </ul>	Inquiry
AB210403 100-billion clones antibody bank	ELISA KD<20nM	Peptide/protein or DNA/peptide/protein sequence. Stable cell line. NOTE: Please contact us for a detailed "list of material" regarding to your unique project.	<ul style="list-style-type: none"> <li>Minimum 5 antibody sequences.</li> <li>100µg purified antibody for each clone.</li> <li>QC and report.</li> </ul>	Inquiry

Email to [info@bio-bench.com](mailto:info@bio-bench.com) if you need special service for human mAb bank.

## Mouse Hybridoma Antibody



Hybridoma mouse mAb is still the most widely used mAb in research, diagnostic and drug discovery. With Bio Bench enhanced method and automation platform, researchers can obtain a much more reliable mAb than ever.

Service and Time Line	guarantee	Starting Material	Deliverables	Price
AB220100 Standard, peptide <b>129 days</b>	1 clone ELISA	Peptide/protein or DNA/peptide/protein sequence. Peptide immunization.	<ul style="list-style-type: none"> <li>• 100µg purified antibody for each clone.</li> <li>• 1 hybridoma.</li> <li>• 0.1 mg uncoupled peptide.</li> <li>• QC and Report.</li> </ul>	€3899
AB220101 (E.coli) Reconstructed protein <b>129 days</b>	1 clone ELISA	DNA/protein sequence. Protein immunization.	<ul style="list-style-type: none"> <li>• 2mg purified antibody for each clone.</li> <li>• 1 hybridoma.</li> <li>• 0.2 mg reconstructed protein.</li> <li>• QC and Report.</li> </ul>	Inquiry
AB220102 (CHO/HEK293) Reconstructed protein <b>129 days</b>	1 clone ELISA	DNA/protein sequence. Protein immunization.	<ul style="list-style-type: none"> <li>• 2mg purified antibody for each clone.</li> <li>• 1 hybridoma.</li> <li>• 0.2 mg reconstructed protein.</li> <li>• QC and Report.</li> </ul>	Inquiry
AB220103 WB Guaranteed service <b>159 days</b>	At least 1 clone. ELISA and WB.	DNA/protein sequence. Hybrid immunization.	<ul style="list-style-type: none"> <li>• 2mg purified antibody for each clone.</li> <li>• At least 1 hybridoma.</li> <li>• 0.2 mg reconstructed protein.</li> <li>• QC and Report.</li> </ul>	Inquiry
AB220104 Sandwich ELISA Guaranteed <b>159 days</b>	At least 1 clone. Sandwich ELISA.	DNA/protein sequence. Hybrid immunization.	<ul style="list-style-type: none"> <li>• 2mg purified antibody for each clone.</li> <li>• At least 1 hybridoma.</li> <li>• 0.2 mg reconstructed protein.</li> <li>• QC and Report.</li> </ul>	Inquiry
AB220105 FCS Guaranteed <b>159 days</b>	At least 1 clone. ELISA and FCS.	DNA/protein sequence. Hybrid immunization.	<ul style="list-style-type: none"> <li>• 2mg purified antibody for each clone.</li> <li>• At least 1 hybridoma.</li> <li>• 0.2 mg reconstructed protein.</li> <li>• QC and Report.</li> </ul>	Inquiry
AB220106 IF Guaranteed <b>159 days</b>	At least 1 clone. ELISA and IF.	DNA/protein sequence. Hybrid immunization.	<ul style="list-style-type: none"> <li>• 2mg purified antibody for each clone.</li> <li>• At least 1 hybridoma.</li> <li>• 0.2 mg reconstructed protein.</li> <li>• QC and Report.</li> </ul>	Inquiry
AB210107 Extra 10 clones Only for standard service	10+ clones	Peptide/protein or DNA/peptide/protein sequence. Stable cell line. NOTE: Please contact us for a detailed "list of material" regarding to your unique project.	<ul style="list-style-type: none"> <li>• 2mg purified antibody for each clone.</li> <li>• Minimum 10 hybridomas.</li> <li>• 0.2mg reconstructed protein.</li> <li>• QC and Report.</li> </ul>	Inquiry

Email to [info@bio-bench.com](mailto:info@bio-bench.com) if you need special service for Mouse mAb service.

WB, FCS, IF are show words for Western Blot, Flow Cytometry, ImmunoFluorescent assay, separately.