

Alpaca SingleB[®] VHH/Nb Discovery

Single B for Single D



With FACS sorting platform and "DeepLight" screening platform, DetaiBio provides SingleB Alpaca VHH Antibody Fast Discovery. The whole process from alpaca immunization, memory B cell and plasma cell double screening, BGE high-throughput expression to functional assays takes short to 90 days, which saves at least 3 weeks compared with the immunized library. DetaiBio guarantees a one-time delivery of 50+sequences, and the delivered antibodies have good diversity and affinity.

Service Features

90-day Fast Delivery

50+ FACS binders delivered
3 weeks faster than Immunized library

Higher Antibody Diversity

B cell double screening
Avoiding the problem of
insufficient library capacity



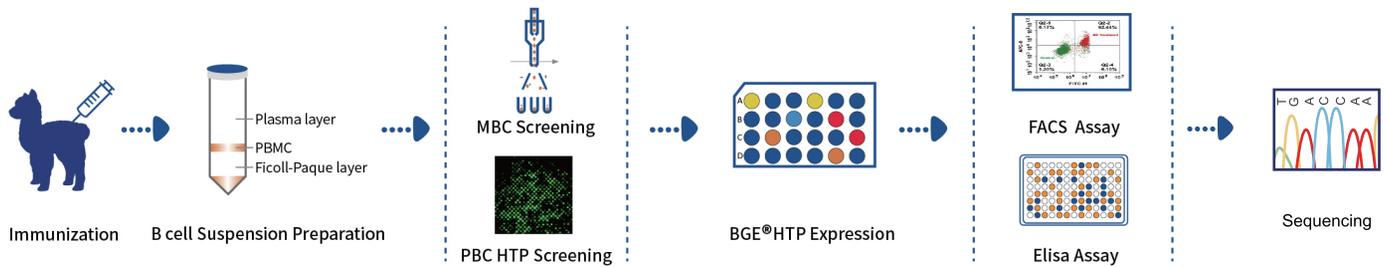
Featured Immune Animal

High-quality alpaca breeding farm

Higher Antibody Affinity

Higher affinity compared to naive library

Service Procedure



Workflow

Stage	Service	Timeline	Deliverables
Stage I Animal Immunization	<ul style="list-style-type: none"> Antigen preparation (optional) Animal immunization Titer determination 	8-9 weeks	Premium Package <ul style="list-style-type: none"> FACs binders > 50 Ensure sequence diversity
Stage II "1+1" Double Screening	<ul style="list-style-type: none"> MBC screening PBC screening 	1 day	<ul style="list-style-type: none"> Antibody sequence and expression plasmid CoA
Stage III BGE® HTP Expression & Functional Assay	<ul style="list-style-type: none"> ELISA Assay FACS Assay 	1-2 weeks	Economic Package <ul style="list-style-type: none"> 5-10 ELISA positive clones
Stage IV Monoclonal Antibody Gene Sequencing	<ul style="list-style-type: none"> HTP gene screening 	1 week	<ul style="list-style-type: none"> Antibody sequence and expression plasmid
Stage V Expression and Purification of Recombinant Antibody (optional)	<ul style="list-style-type: none"> Transfection level plasmid preparation Transient transfection expression HTP purification Endotoxin control 	For enquiry	<ul style="list-style-type: none"> Select one strain purified 1 mg antibody CoA

Case Study

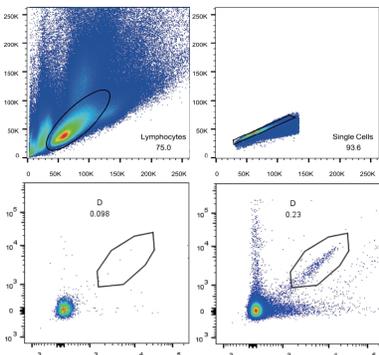


Figure 1. FACS sorting of MBCs

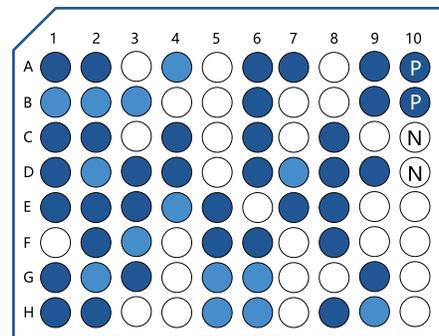


Figure 2. FACS binding assay

The obtained VHVs in one plate were tested by FACS assay and showed high affinity to antigen and high positive rate.