



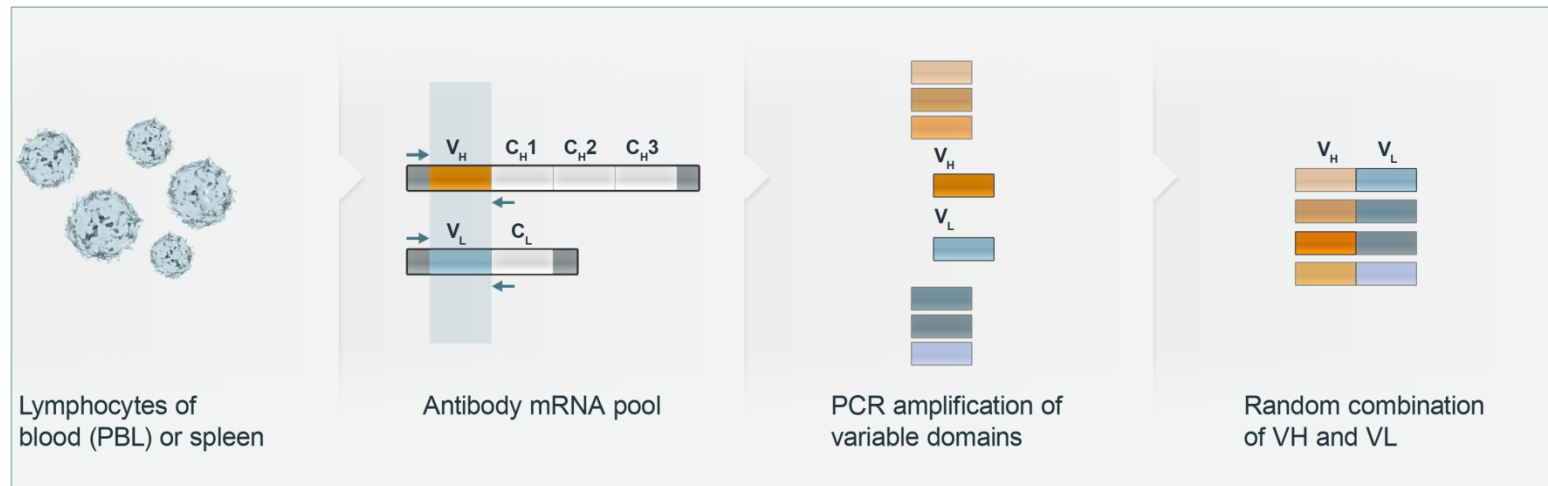
Partnered Discovery of High-quality Antibody Drug Candidates

HUMAN LIBRARIES

Proprietary scFv Library

- Fully human scFv library
- *In vivo* created diversity of antibody sequences comprising sequential as well as structural diversity
- New combinations of VH and VL chains from multiple healthy donors
- No bias due to amplification of the VH chains by IgM specific priming
- Special assembly technology guarantees > 70% functional clones

Reliable and rapid selection of highly specific and high affinity antibodies on recombinant proteins or cells



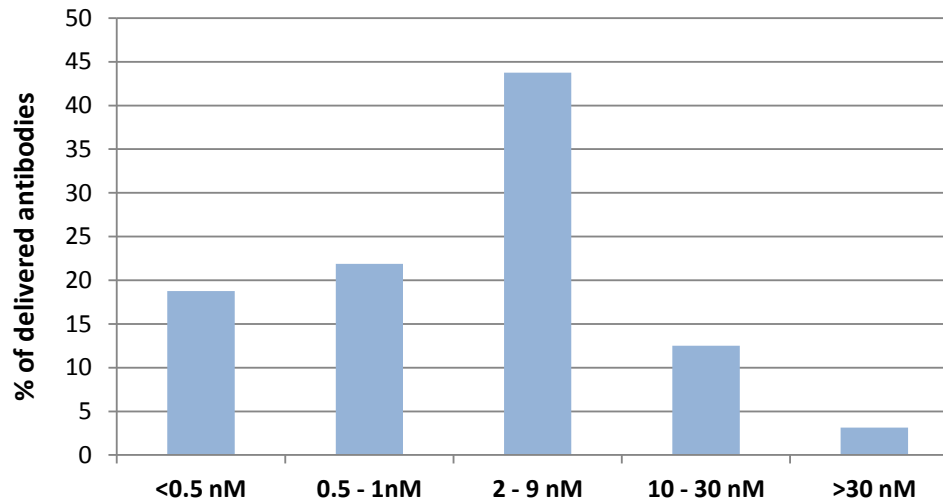
Validation of AbCheck Proprietary Libraries

- Over 30 successful antibody discovery projects
- One AbCheck antibody in the clinic, others in pre-clinical programs
- Industrial partners: Affimed, Eli Lilly, U3 Pharma, Pierre Fabre and undisclosed partners
- AbCheck Antibodies yield stable IgG, scFv and TandAbs
- Outstanding expertise in challenging antibody discovery projects including:
 - Antibodies with sub-nanomolar affinities
 - Antibodies with exquisite specificities



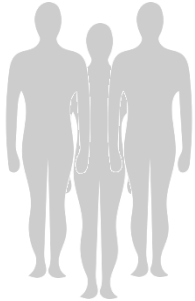
High Affinity scFv Leads (Low nM Without Affinity Maturation)

Affinity range of scFv from naive libraries



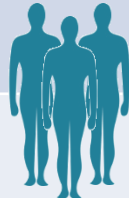

Monovalent affinities of scFvs
 meeting ALL customer acceptance criteria
(not affinity only)





- Uses all available VH/VL domains, leading to the highest structural diversity
- Naturally occurring, *in vivo* rearranged and expressed diversity

Libraries - Comparison

Naive - Human	Immunized – Mass Humanized
Ready to use/all purpose 	Immunized/target specific 
Cloned from healthy human donors	Cloned from immunized rabbits
>1E+10 VH/VL pairs – naive	1E+8 to 1E+9 VH/VL pairs – immunized
All naturally occurring human VH/VL frameworks	Selected stable and frequently used human VH/VL frameworks
Separated lambda and kappa diversity	Kappa diversity
Antibodies in the clinic/ More than 30 successful projects since 2010	Used in customer projects since 2016
Delivery of highly specific antibodies with high affinity	Special potential for difficult targets



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