

SYMPLEX – a fully integrated approach to antibody discovery

Common challenges

- How to find antibodies with unique functions?
- How to find antibodies against conserved epitopes?
- How to find antibodies against difficult targets?
- How to secure species cross-reactivity?
- How to get early functional data on full-length mAbs?

What is special about Symplex?

Use of multiple species overcome target conservation and lack of species cross-reactivity

Innovative immunization regimens ensure antibody responses against difficult targets

Symplex isolate entire unbiased natural immune responses, and delivers immense target specific repertoires that increase the likelihood of finding antibodies with ultra rare functional properties

Fully recombinant approach and full-length antibodies from start to finish enable up front functional screening of unmodified drug candidates in any isotype






Why natural antibody responses?

Unparalleled capacity for antibody diversification

Natural tolerance mechanisms at work to optimize affinity while conserving specificity

Multiple species to ensure broadest possible epitope coverage

Typical Symplex deliverables

TARGET TYPE	SPECIES	UNIQUE ANTIBODIES	UNIQUE CLONOTYPES	AFFINITY RANGE	LEAD MOUSE CROSS REACTIVE
RECEPTOR TYROSINE KINASE		720	280	310 pM - 380 nM	NO
SCAVENGER RECEPTOR		1146	350	175 pM - 600 nM	NO
C-TYPE LECTIN HETERODIMER		740	240	70 pM - 400 nM	NO
PROGRAMMED CELL DEATH 1*		120	60	30 pM - 60 nM	YES
RECEPTOR TYROSINE KINASE		130	70	>30 pM	YES
METHICILLIN RESIS. STAPH. AUREUS#		200	N/A (MULTIPLE TARGETS)		N/A

* Gjetting T, et al. mAbs 2019
#Lehar SM, et al. Nature 2015



- Fully human antibodies
- 5 Week immunizations
- Innovative immunization regimens
- Very large and diverse repertoires



- Humanized antibodies
- Conserved target or functional site
- Unique epitopes
- Murine cross-reactivity

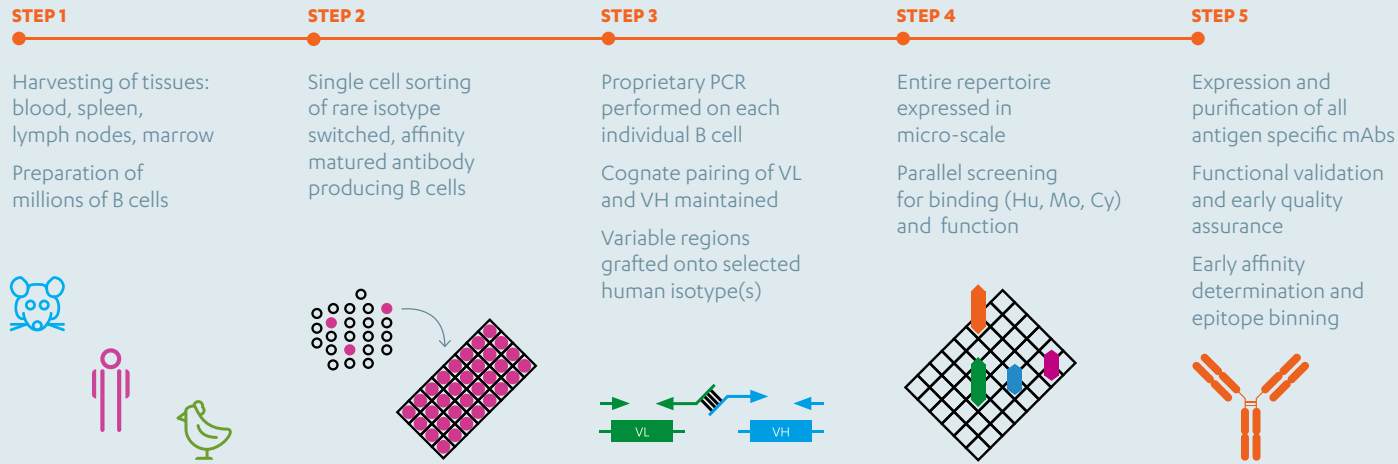


- Fully human antibodies
- Pathogen infected donors
- Acute and memory responses



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Immunization to lead in 18 months



The power of Symplex - high dimensional property space on all mabs

