



Mouse mAbs

to

Monoclonal antibody production strategies: phage display vs in vivo immunization

Monoclonal antibodies have transformed the way we treat cancer, autoimmune conditions and infectious diseases. Take a deep dive into the intricacies of custom antibody discovery with a focus on phage display and in vivo immunization and elevate your understanding of Bio-Rad's antibody production capabilities through the Pioneer[™] Antibody Discovery Platform and HuCAL[®] technology.



	Mouse	Antigen	Myeloma cells	Hybridoma	Antibodies of murine and therefore require humanization deimmunization be used as therapoutics	are d uire 1 or n to
S Immur a		unization with antigens	Harvesting of spleno hybrida	cytes to generate oma	Mouse monoclonal antibodies	
		Phage displ	ay	<i>In vivo</i> immunizati	on	
Pro	s	 Speed: generates well-characterized antibodies in weeks Animal-free: antibodies can be obtained against self, non-immunogenic or toxic antigens Established and therapeutically-proven technology Sequence-defined antibodies providing a secure antibody source 		<text><list-item></list-item></text>		
Cor	IS	 Antibodies me affinity and re affinity matures Laborious to and high-qua antibody libra Developability need to be accord Requires species 	ay have low equire in vitro ration develop large lity ries cy concerns tively addressed cialized	 Development requires anim facilities as w considerable and expertise Mouse mAbs for use as the and require h Possible loss low efficiency apporation state 	of hybridomas als, specialized ell as time are unsuitable rapeutic agents umanization of clones due to of hybridoma	

Applications

Therapeutic discovery

Pioneer Antibody Discovery Platform

Phage display human

antibody library Increased speed, performance

and versatility through built-in SpyTag technology

> Designed to offer maximal functional diversity and affinity

Learn more about SpyTag technology here

Bioanalysis

Catalog anti-idiotypic antibodies

Access >100 highly specific antibodies for idiotypes for PK and ADA assays

Suitable to support bioanalytical assays for:



Preclinical research











Explore anti-idiotypic antibodies

Therapeutic drug monitoring

Human Combinatorial Antibody Libraries:

HuCAL Technology

In vitro generation of recombinant monoclonal antibodies that are:



Custom recombinant antibodies eliminate:

- the need for sourcing and testing multiple commercial products
- waiting for hybridoma generation

Type 3 antibodies that recognize antibody-target complex are only produced by Bio-Rad



This infographic has been created as part of a Bioanalysis Zone feature with Bio-Rad.



