



Pan-Reactive mAbs Enable Preclinical Animal Models

Custom mAb reagents for hitting targets in diverse animal species

CELLSURFACEBIO

Ross Chambers, Kyle Guldner, Paige Murphy, Sarah Campbell, Meghan Pitts, Riley Payne, J. Tabb Sullivan, Joseph Rucker, Sharon H. Willis, and Benjamin J. Doranz

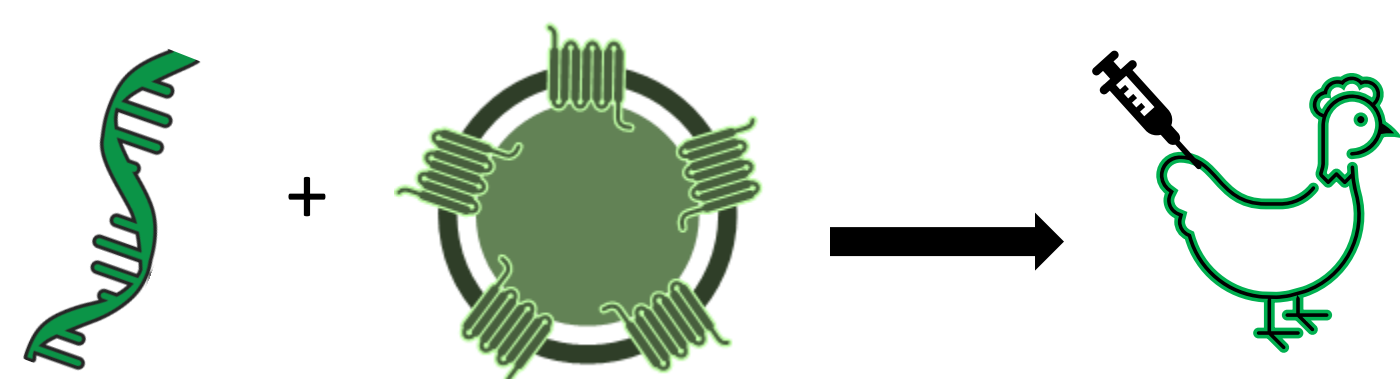
Pan-Reactive: mAbs react with multiple species and enable target validation in animal models

Pan-Reactive mAbs Target Diverse Animal Orthologs

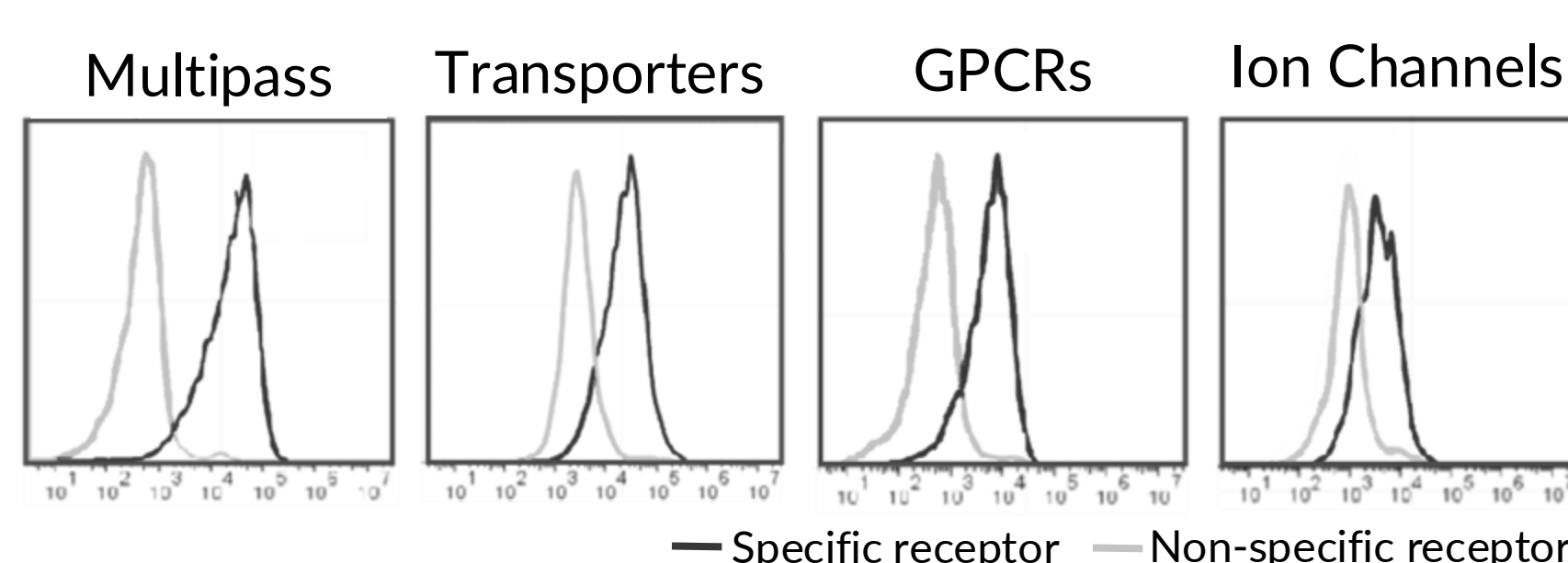
- **Validate Across Species:** Assess target relevance in rodents, NHPs, and other mammalian models
- **One mAb for Animal and Human Models:** Confirm function and localization in human cells and tissues with the *same* mAb

Built on Integral Molecular's discovery platform

1. mRNA and Lipoparticle™ Immunization in Chickens

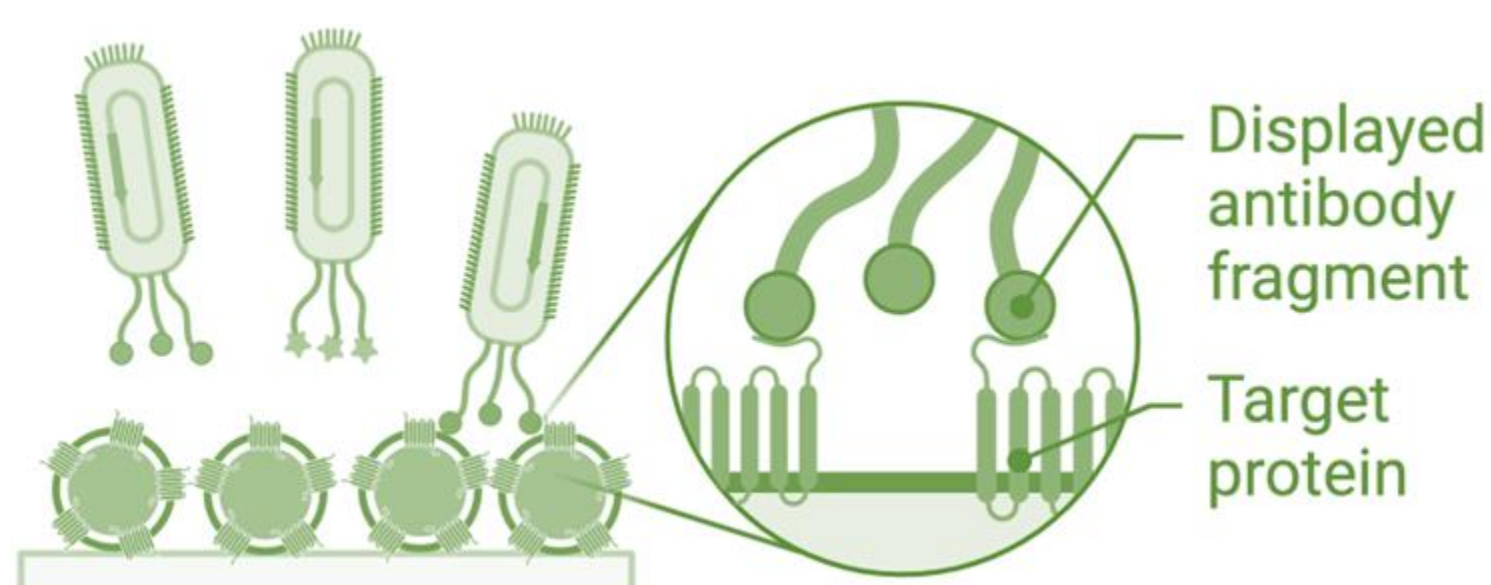


Lipoparticles™ present concentrated membrane proteins on VLPs



High serum titers from immunizations

2. Phage Panning Against Native Epitopes



Multi-round phage panning against native epitopes

Streamline your discovery process with a cost-effective custom mAb that cross-reacts across mammalian species

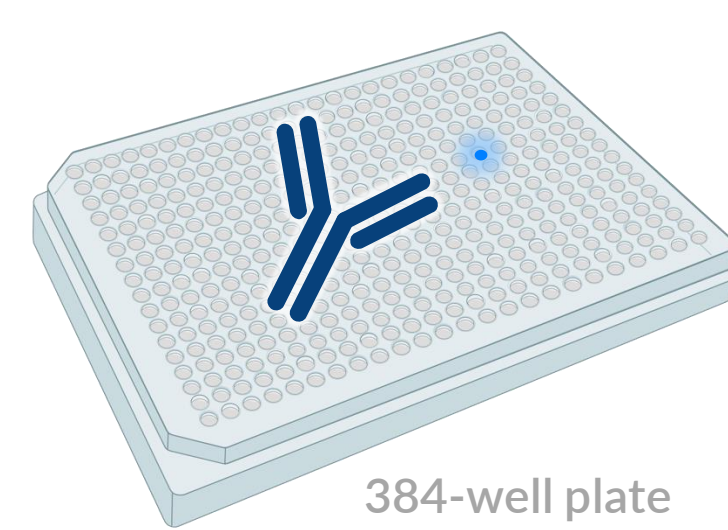
Specific: Screened against 6,000+ membrane proteins to ensure that each mAb is highly specific

Membrane Proteome Array™ (MPA)

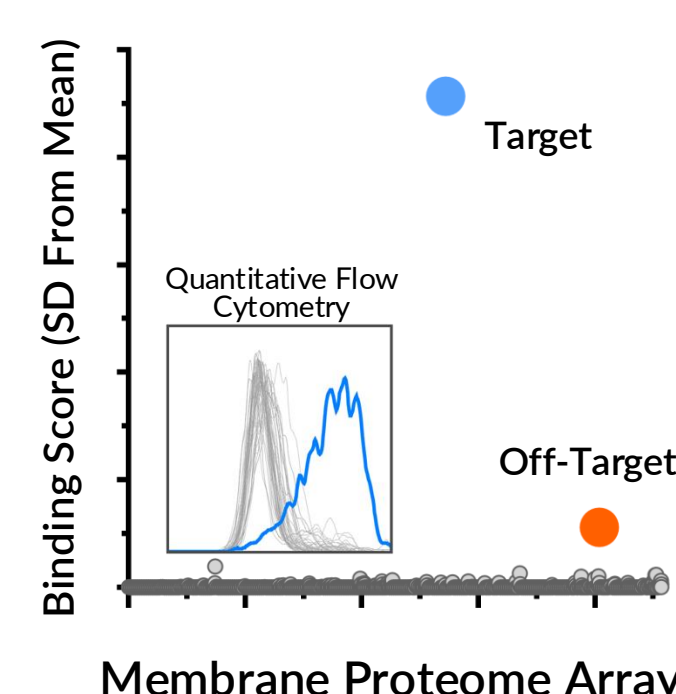
IND-enabling Specificity Testing

Cell-Based Protein Array
~6,000 native human membrane proteins

Test Specificity
across the membrane proteome



384-well plate



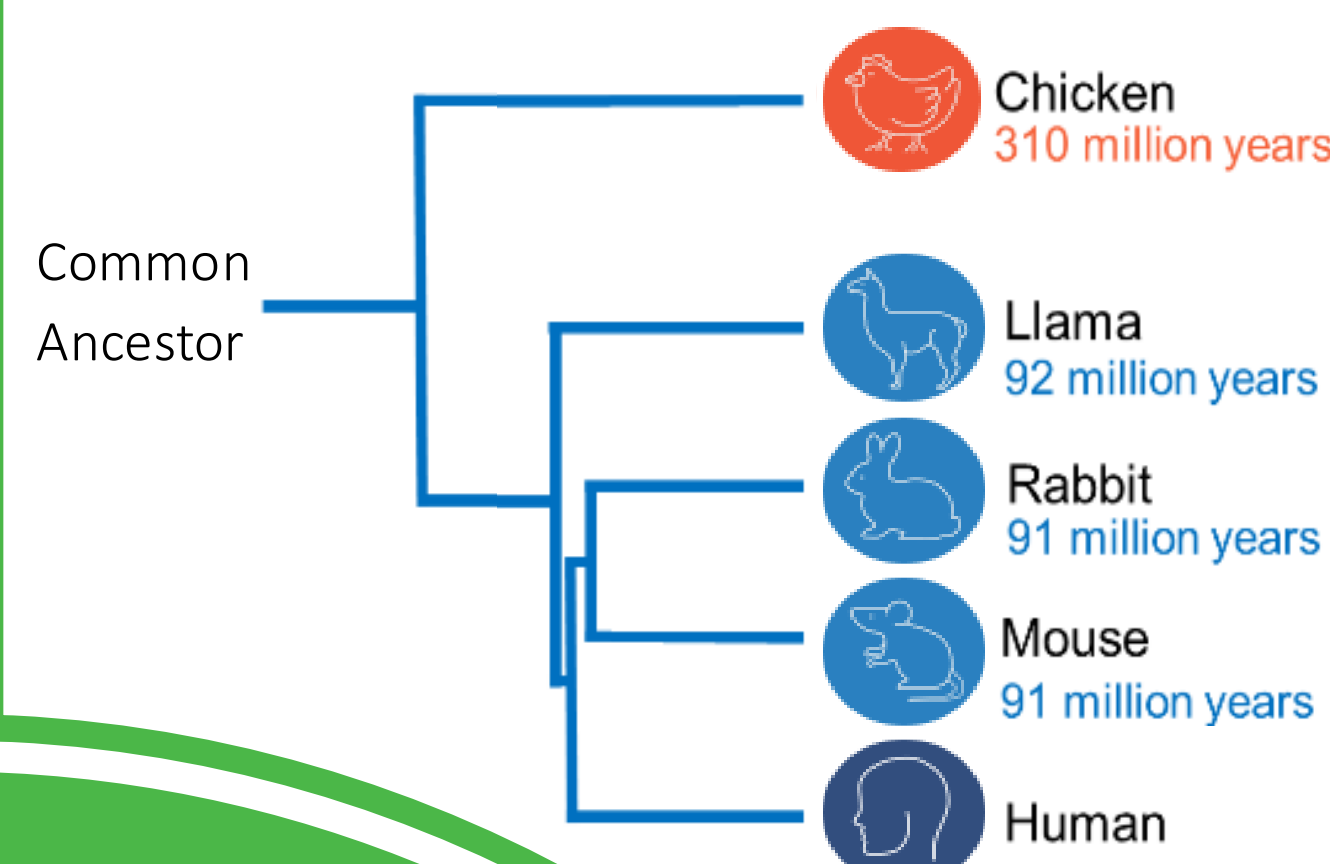
Membrane Proteome Array

CSB antibodies are built on 20+ years of antibody discovery and characterization technologies created by its parent company, Integral Molecular

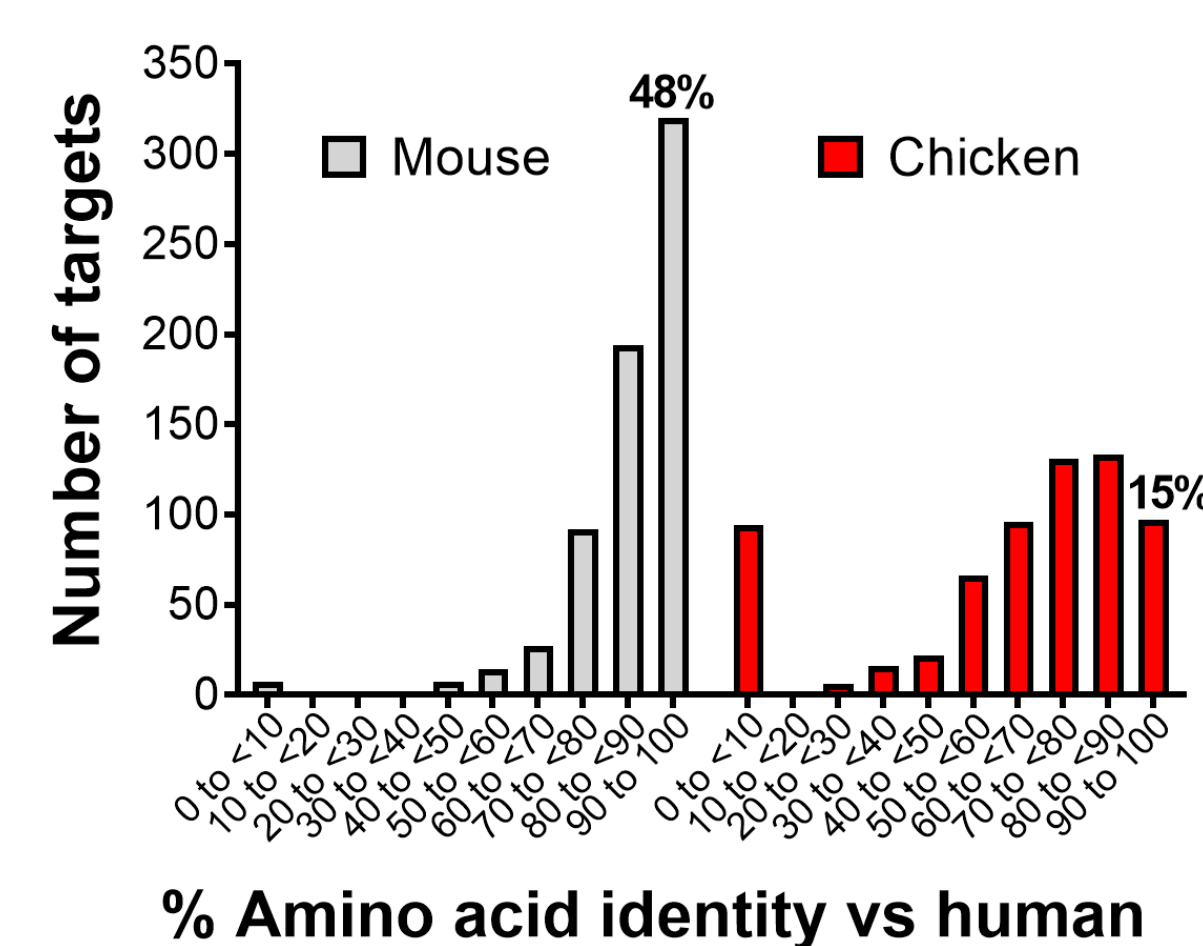
Comprehensive specificity testing for every CSB antibody using Integral Molecular's Membrane Proteome Array™

Access Conserved Targets: Chickens enable antibody discovery against mammalian epitopes

Divergent Host



Access Druggable Proteins in Chickens



Target conserved protein epitopes by utilizing the divergence of chickens

Banik et al, 2023, mAbs

VeRSaMAb® ANTIBODIES THAT ALWAYS WORK

Access the Most Challenging Targets

Membrane Proteins: High-quality mAbs against *any* target including ion channels, transporters, & GPCRs

Custom Reagent mAbs

Designed for your assay, target, and model species

Against Any Ortholog

Cynomolgus, rat, rabbit, ferret, pig, bat, guinea pig, and more...

20+ Years
of Experience

Leveraging Integral Molecular's discovery platform

Reliable: Every VeRSaMAb® is validated and recombinant



Validated

- Extensively validated for:
- ✓ Flow cytometry
 - ✓ Immunofluorescence
 - ✓ Western Blot



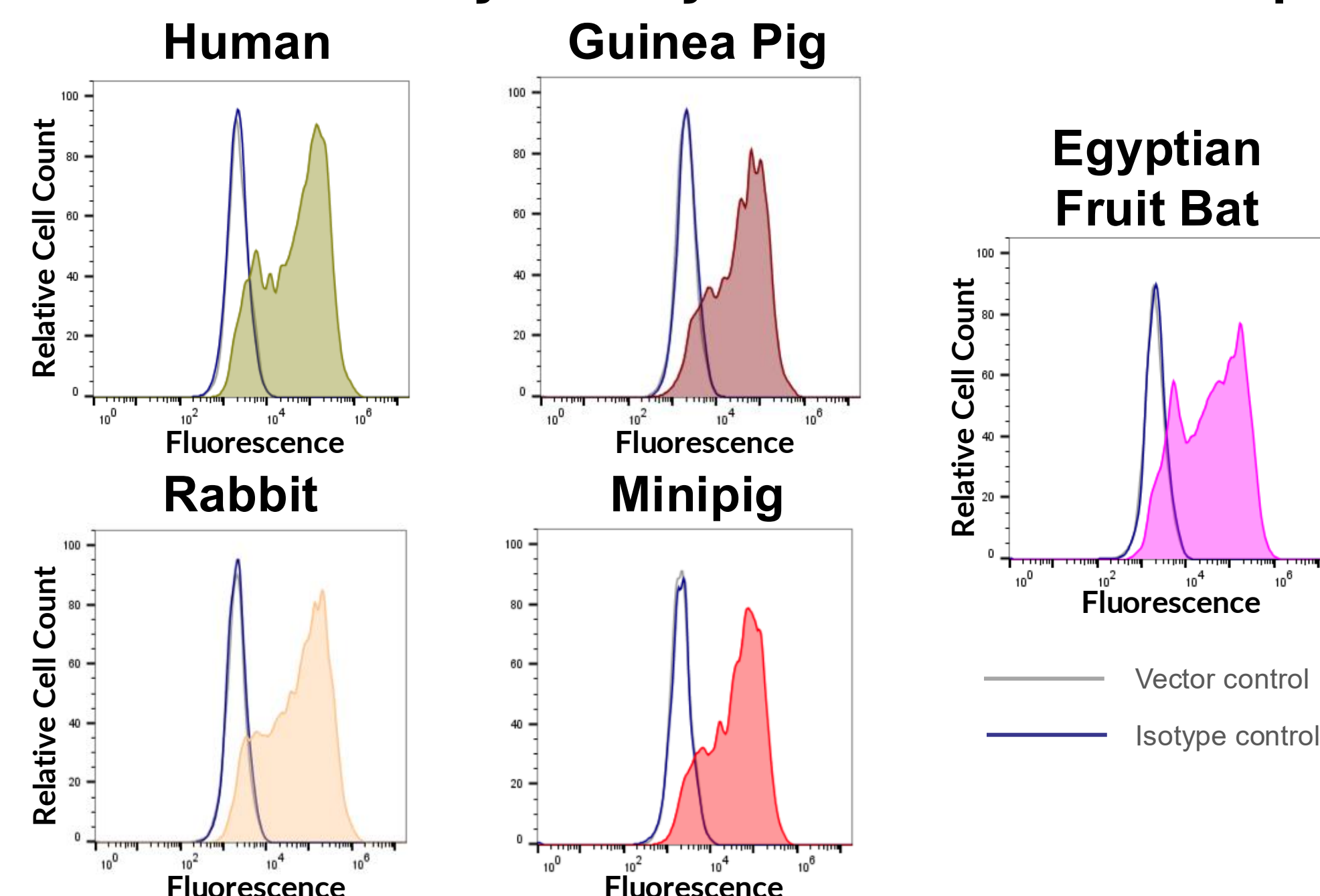
Recombinant

- Recombinantly cloned for:
- ✓ Reproducible results
 - ✓ Reduced background through Fc engineering
 - ✓ Guaranteed monoclonality

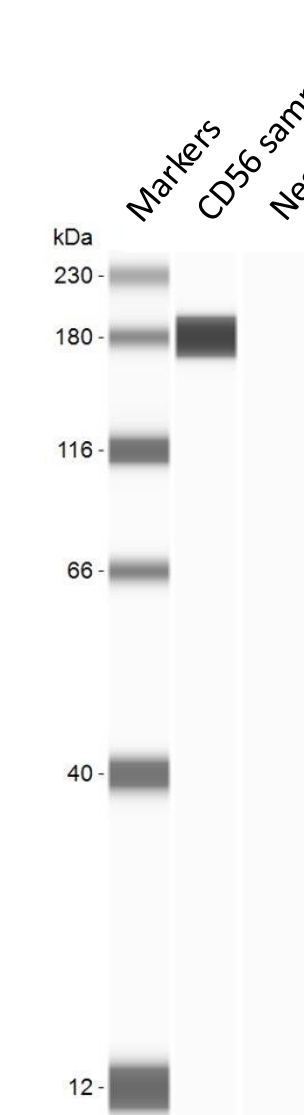
Extensively validated mAbs for reproducible experimental results

Case Study: Anti-CD56 mAb binds to every mammalian ortholog tested

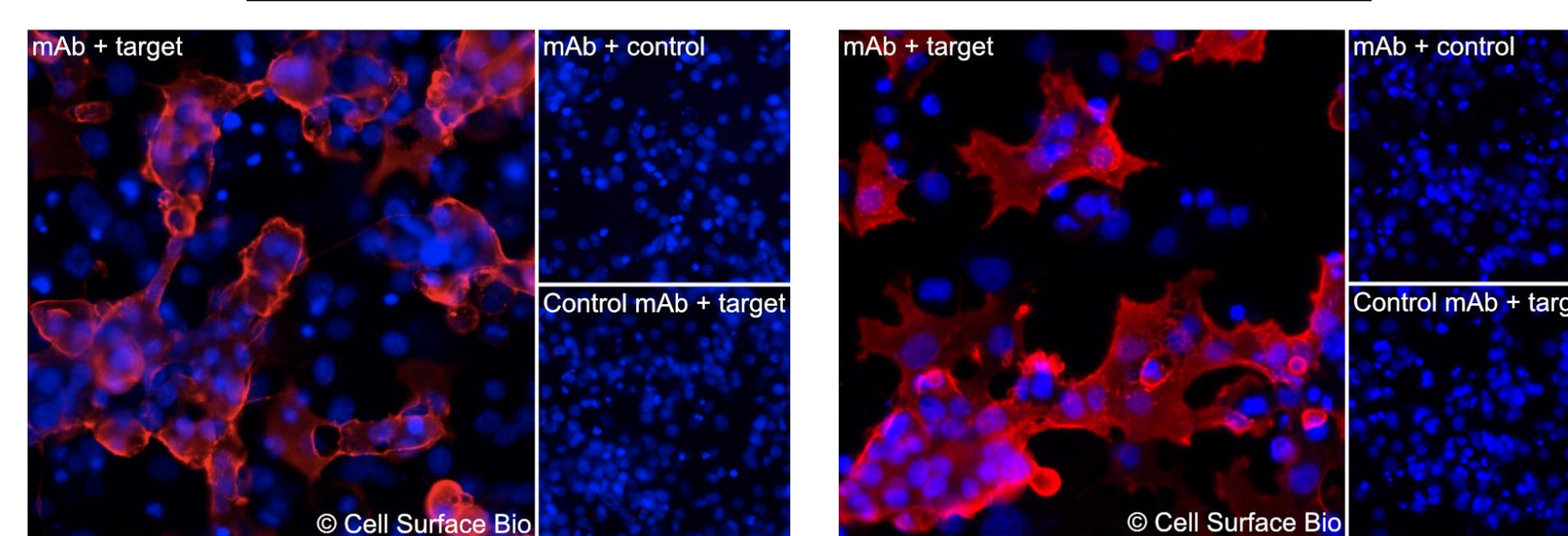
Validated for Flow Cytometry Across Mammalian Species



Single Band Western Blots



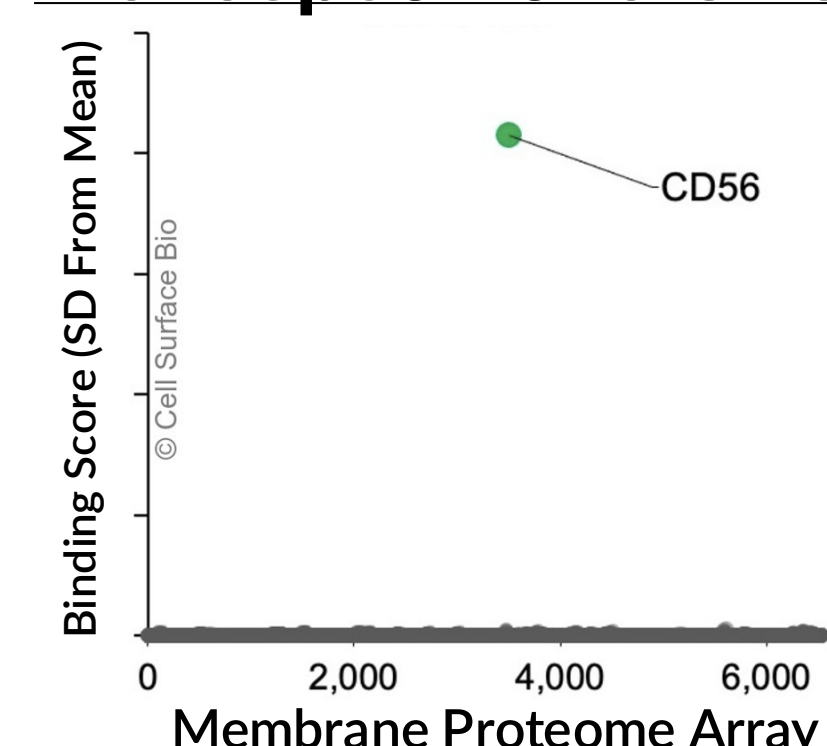
Validated for Immunofluorescence



Extracellular

Intracellular

Monospecific to CD56



Validated binding across 10+ mammalian species, no off-target binding, & compatible with multiple assays

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Cell Surface Bio's mission is to provide scientists only the highest quality reagent antibodies, backed by 20+ years of experience in antibody discovery and characterization.
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