

1. Twist Bioscience, South San Francisco, CA, USA 2. Immunoscientific, Madison, WI, USA

Through Surface Plasmon Resonance (SPR) assays, epitope mapping approaches via Plasma Induced Modification of Biomolecules Hydroxyl Radical Footprinting (PLIMB-HRF), and cell-based functional assays, we demonstrated our candidates to exhibit strong affinity, varied epitope, and diversity in function. Further, multiple of our antibody candidates exhibited significant suppression to tumor growth in in-vivo studies— suggesting a promising future for these candidates. Not only did Twist's robust in-vitro phage display approach provide a strong foundation for this project's antibody discovery (SC52 campaign), additional machine learning (TB441, TB580, TB643, TB758 campaign) and downstream bispecific engineering (TB725 campaign) enabled us to iterate and improve our antibodies, resulting in promising antibody candidates with potential therapeutic activity.