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Structure-Guided Design of an Anti-Neuregulin Antibody Directed to a Non-Receptor Domain Epitope

Highlights
- Structure-guided affinity enhancement of a mini-receptor domain antibody
- A novel approach for the development of bispecific antibodies
- Antibody demonstrated to inhibit neuregulin-induced cell signaling

Summary
Neuregulin (NRG), a member of the EGF family, is critical for the development and function of the nervous system. NRG signaling is dysregulated in various diseases, making it a target for therapeutic intervention. However, the design of a fully humanized antibody that binds the extracellular domain of NRG with high affinity and specificity is challenging. In this study, we describe the structure-guided design of an anti-NRG antibody that targets a non-receptor domain epitope, offering a novel approach for the development of bispecific antibodies.

For more information, please visit the original article in Cell.