

## Modular immunoglobulins composed of variable domains and CH3 domains exhibiting improved effector functions

### BACKGROUND

Domain-exchanged complete antibody composed of the Fc fragment and variable domains where CH1 and CL domains have been exchanged for a pair of CH3 domains.

### TECHNOLOGY

Modular immunoglobulins composed of Fab-like fragment with Herceptin VL and VH region and CH3 domains and an unmodified Fc fragment are described. Novel is an increased binding to FcγRIIIa, which leads to potentiated T-cell activation upon binding to a Her2-positive cell line.

**REFERENCE:**  
2012-07

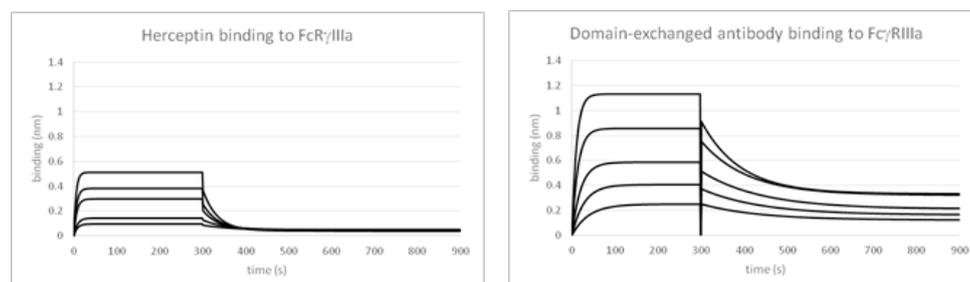
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**KEYWORDS:**  
■ FcRN  
■ CH3  
■ Variable domains

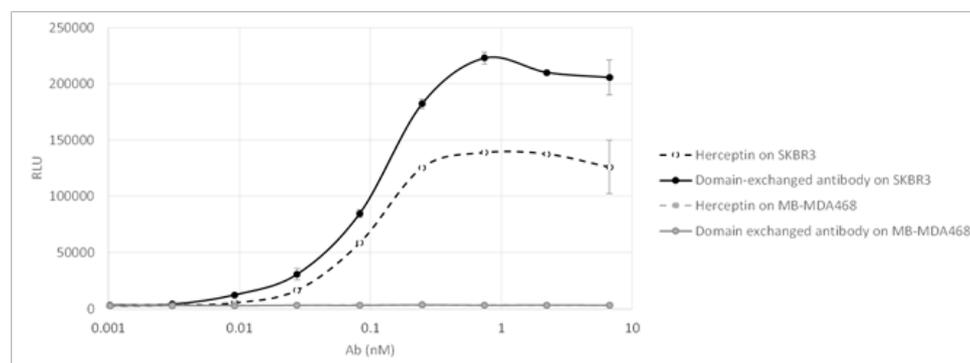
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### Binding to effector molecules



### T-cell activation assay



### BENEFITS

- a protein that closely resembles a complete antibody, composed of human-only sequence
- retains binding to the original antigen mediated by variable domains
- exhibits potentiated effector functions

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