absolute antibody

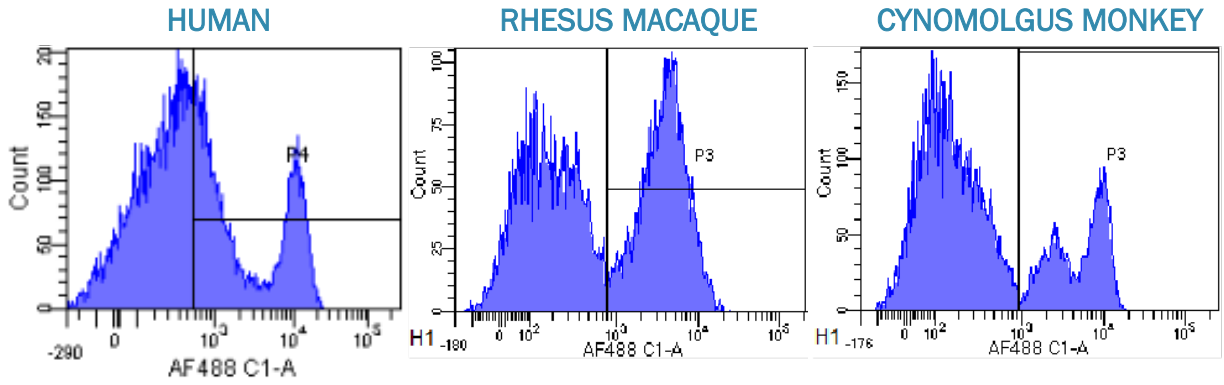
Reformatted Antibodies for Non-Human-Primate Models

The Problem

Non-human primates (NHP) are useful models in preclinical research, but human antibodies may not function in NHPs in the same way they do in humans. In one study in cynomolgus monkeys, human IgG was more competent at CDC but less competent at ADCC than cynomolgus IgG. Differences between isotypes were also inconsistent (Jacobson et. al. 2011, PMID 21131427).

Differences are also seen in the distribution of target binding, as demonstrated in the below data showing one antibody across human, rhesus, and cynomolgus models.

With varying behaviour in both target and Fc receptor binding, interpreting results from NHP models for human applications can be challenging. Valuable opportunities could be missed, and time could be wasted on unsuitable candidates that give misleading results.

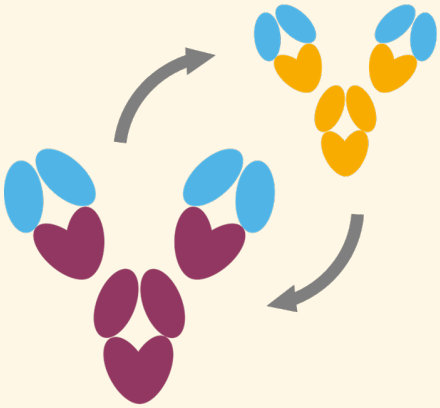


Example case: Different CD40 distributions on primate lymphocytes

Flow cytometry data shows human, rhesus macaque and cynomolgus monkey lymphocytes stained with the same anti-huCD40 antibody [G28.5] (Ab00129-23.0).

The Solution

Absolute Antibody gives researchers the option to investigate potential variables. We offer our recombinant antibodies in a range of formats, including cynomolgus and rhesus isotypes.



- ✓ Cynomolgus Monkey IgG1 & IgG4
- ✓ Rhesus Macaque IgG1 & IgG4
- ✓ Cynomolgus & Rhesus Validated Reagents

Ask us about our research-grade biosimilars available in a range of formats to suit your model, or our comprehensive range of antibody isotype controls. Get in touch today!

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