

## Targeting Talk: Product Q&A

*Q: I ordered a control conjugate to use alongside my targeted conjugate, but the two products are at different concentrations. How much control conjugate should I use?*

**A:** Conjugate products are often of differing protein concentrations, meaning dilution of one is usually necessary to ensure comparable amounts of control conjugate and targeted conjugate are used. This adjustment can be done on a molar basis or a protein concentration basis. The data sheet shipped with each Advanced Targeting System conjugate specifies the molecular weight of the product. There are various calculators available on the ATS web site:

(<http://www.atsbio.com/calculations.html>).

By using these tools, calculations can be done that will ensure the same number of molecules of both control and targeted conjugate are used in your experiment. Alternatively, if the molecular weights of the two products are similar, calculations can be done to use the same amount of control protein as targeted conjugate protein in your experiment.

*Q: I have been using your ZAP Antibody Internalization Kit. It is working well for me, but I can only test one antibody at a time. Do you offer the ZAP kit in larger sizes?*

**A:** We do offer kits with sufficient components to test multiple antibody candidates. We offer "Z4" and "Z10" sizes of kits that include all of the same consumable components of the original ZAP kit in quantities sufficient to test 4 or 10 antibodies, respectively. While the included recommended protocol is identical to the original ZAP kit, the added materials provide an opportunity for the experienced researcher to streamline their experiment by testing multiple antibody candidates at one time.

### Q&A Products

#### Control Conjugates

##### Blank-CTA

*for peptide-targeted CTA conjugates (IT-61)*

##### Blank-SAP

*for peptide-targeted SAP conjugates (IT-21)*

##### Fab IgG-SAP

*for goat IgG Fab-ZAP secondary conjugates (IT-67)*

##### Goat IgG-SAP

*for goat IgG-containing immunolesioning agents (IT-19)*

##### Human IgG-SAP

*for human IgG-containing immunolesioning agents (IT-49)*

##### Mouse IgG-SAP

*for mouse IgG-containing immunolesioning agents (IT-18)*

##### Mouse IgM-SAP

*for mouse IgM-containing immunolesioning agents (IT-41)*

##### Rabbit IgG-SAP

*for rabbit IgG-containing immunolesioning agents (IT-35)*

##### Rat IgG-SAP

*for rat IgG-containing immunolesioning agents (IT-17)*

#### ZAP Kits

##### ZAP Antibody Internalization Kit

*(for in vitro use)*

**Secondary antibody conjugate kits contain all the components needed to screen your antibody. Available in multiple species as well as whole IgG and Fab IgG secondary conjugates**

##### ZAP Biotin-Z Kit

*(for in vivo use)*

**Biotin-Z kit (Streptavidin-ZAP) contains all the components needed to screen your biotinylated materials.**

## Targeting Teaser Solution

**The solution to the puzzle was:**

Jumbles:    DECREASING  
                 BEHAVIOR  
                 ABLATION  
                 BLANK  
                 CIRCUITRY

*What did the LEGO scientist call DNA?*

**Answer:            BUILDING BLOCK!**



**Solve this quarter's teaser at  
[www.ATSbio.com/news/14q4\\_teaser.html](http://www.ATSbio.com/news/14q4_teaser.html)**

***Congratulations to the puzzle solvers from last quarter. Each winner has received an ATS flashlight pen.***



**LAST QUARTER'S WINNERS:** Glenn H. Kageyama, Cal Poly Pomona Univ, Pomona, CA \* Peter Syapin, Texas Tech Univ Health Sciences Center \* Kristen Phend, Univ North Carolina Chapel Hill \* Bill Henry, Rhode Island Hospital Surgical Research \* Michelle Connole, Harvard Univ/NEPRC \* Roger Guillemin, Salk Institute \* Daniel Pekala, Charles River Labs \* Debbie Nation, Central Methodist Univ \* Norma Huff, Univ California San Diego \* Bob Lamm, Univ Washington