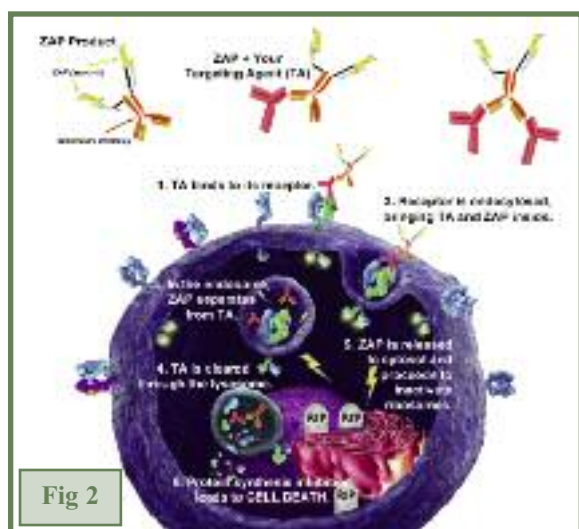


Targeting Tools: Featured Products

ZAP Antibody Internalization Kit (Cat. #KIT-100)

Screening large numbers of antibodies for the ability to internalize can be prohibitively expensive in both cost and time. The **ZAP Antibody Internalization Kit** contains all the components needed for three 96-well plates, or 288 tests. The ability to perform a diagnostic screen that is amenable to high-throughput methods, prior to direct conjugation of those antibodies, is a great cost-benefit in the development of an effective targeted conjugate. Targeted conjugates are widely used to escort payloads to specific cell populations *in vitro* and *in vivo* for both basic research and pharmaceutical development. The development of an effective and specific targeted conjugate is a long and costly process. A molecule that targets the marker of choice (a Targeting Agent) must be identified and produced; internalization and specificity must be verified and characterized. Desirable traits of a Targeting Agent (TA) include high specificity and rapid internalization. The TA can be an antibody, peptide, protein, or any other molecule that recognizes a cell-surface marker. Antibodies often make the best targeting agents, and the choice of the correct antibody is crucial to the specificity and performance of payload delivery.



within the cytosol to inactivate the ribosomes. Cells not expressing the target do not bind or internalize the ZAP-antibody complex, and are not affected. Saporin has no binding chain, and no means of getting into cells on its own.

The **ZAP Antibody Internalization Kit** contains all of the materials needed to screen your antibody. Included, in addition to the selected ZAP products, are controls and developing reagents for the assay. All the user provides are the materials specific to their experiment (the antibody candidate, cells expressing the target, and culture reagents). Recommended protocols for use are detailed in a booklet and on a



flash drive provided, and are specific to the particular kit chosen (Whole-ZAP, Fab-ZAP, or FabFc-ZAP). Examples of predicted assay results are also included for comparison; a successful assay provides an EC₅₀ useful in determining if the candidate-antibody should be pursued at the next level.

Contributed by Brian Russell, Product Manager

Target	Recommended Products		
Human IgG	Whole-ZAP		
Human IgG1	Whole-ZAP		
Human IgG2	Whole-ZAP		
Human IgG3	Whole-ZAP		
Human IgA	Whole-ZAP	Fab-ZAP	FabFc-ZAP
Human IgM	Whole-ZAP		
Human IgD	Whole-ZAP		
Human IgE	Whole-ZAP		
Human IgG4	Whole-ZAP		
Human IgG5	Whole-ZAP		
Human IgG6	Whole-ZAP		
Human IgG7	Whole-ZAP		
Human IgG8	Whole-ZAP		
Human IgG9	Whole-ZAP		
Human IgG10	Whole-ZAP		
Human IgG11	Whole-ZAP		
Human IgG12	Whole-ZAP		
Human IgG13	Whole-ZAP		
Human IgG14	Whole-ZAP		
Human IgG15	Whole-ZAP		
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Human IgG95	Whole-ZAP		
Human IgG96	Whole-ZAP		
Human IgG97	Whole-ZAP		
Human IgG98	Whole-ZAP		
Human IgG99	Whole-ZAP		
Human IgG100	Whole-ZAP		

Fig 1

