

The Antibody Society presents:



**Antibody Validation
Webinar Series**

WEBINAR 3: What's in a name? Finding the antibody for the job

Moderator: **Dr. Simon Goodman**, The Antibody Society

Speakers: **Dr. Jan Voskuil**, Aeonian Biotech, and **Professor Andy Chalmers**, University of Bath and CiteAb

First Webcast: December 4, 2019

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Questions and Answers from the live Webcast on December 4, 2019

Question	Answer
Which kind of proteins should we be more prudent about when making selections?	<p>AC response: I think researchers should be careful with all their selections, but it also depends how central the antibody is to the project. The more central the more careful you need to be to validate the antibody and also look for other non-antibody ways to confirm the result.</p> <p>JV response: Certain membrane proteins and certain nuclear proteins have proven to be tough to raise good antibodies to. Also mucines and heavily glycosylated proteins.</p>
Dr. Voskuil, is it possible to know the names of the 2 anti-HER2 that are cross-reactive to HER4?	<p>For more information, please see https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3263426/. The three diagnostics and "validated" products were PATHWAY® HER2, Oracle® HER2, and HercepTest™ antibody. Only the last one was selective to HER2, while the other two were cross-reactive to HER4.</p>
What is a generic workflow for validation if an antibody does not work?	<p>AC response: That is a great question and warrants an entire webinar or two! My feeling is it will often vary depending on the lab/project/antibody. I think the pillars of antibody validation paper* by the international working group is a good starting point for approaches that can be used, and then it's about matching them to your situation.</p> <p>*Uhlen M, Bandrowski A, Carr S, Edwards A, Ellenberg J, Lundberg E, Rimm DL, Rodriguez H, Hiltke T, Snyder M, Yamamoto T. A proposal for validation of antibodies. Nat Methods. 2016 Oct;13(10):823-7. doi: 10.1038/nmeth.3995.</p> <p>JV response: Always try to find a few different antibodies from different sources. Always first copy the results of the datasheet to make sure the antibody has not lost its integrity.</p> <p>SG response: It's tough, which is why we're doing this. Standardized technology and following the providers data sheets may help. We'll deal with that later in the series.</p>