Start with the most cited antibody

The Antibody Society Webcast series - Antibody Validation #3

Dr Andrew Chalmers (CiteAb and the University of Bath)

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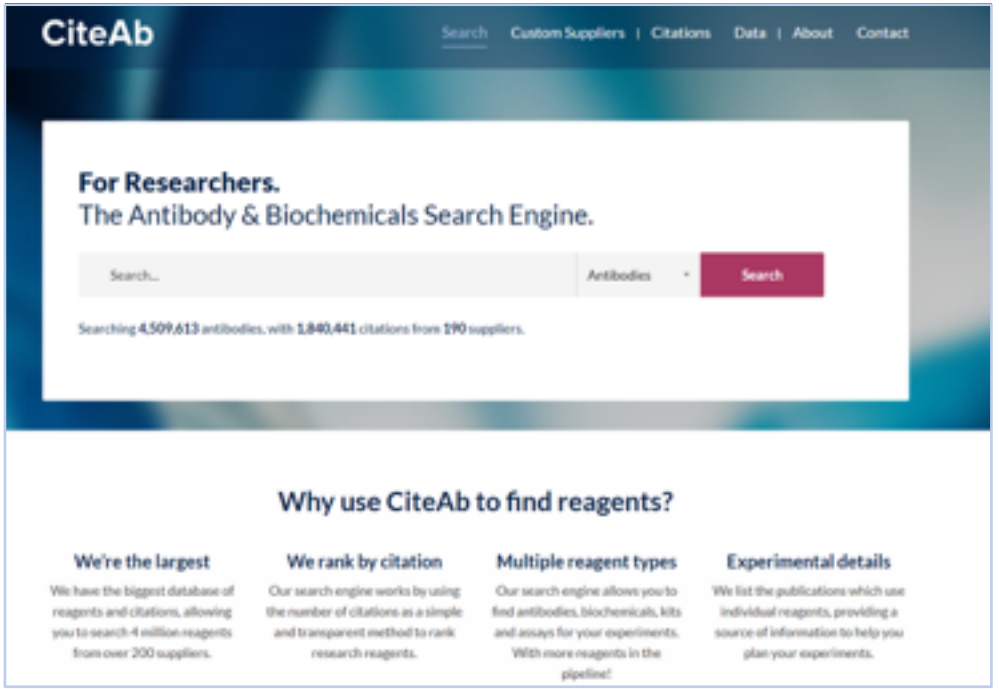
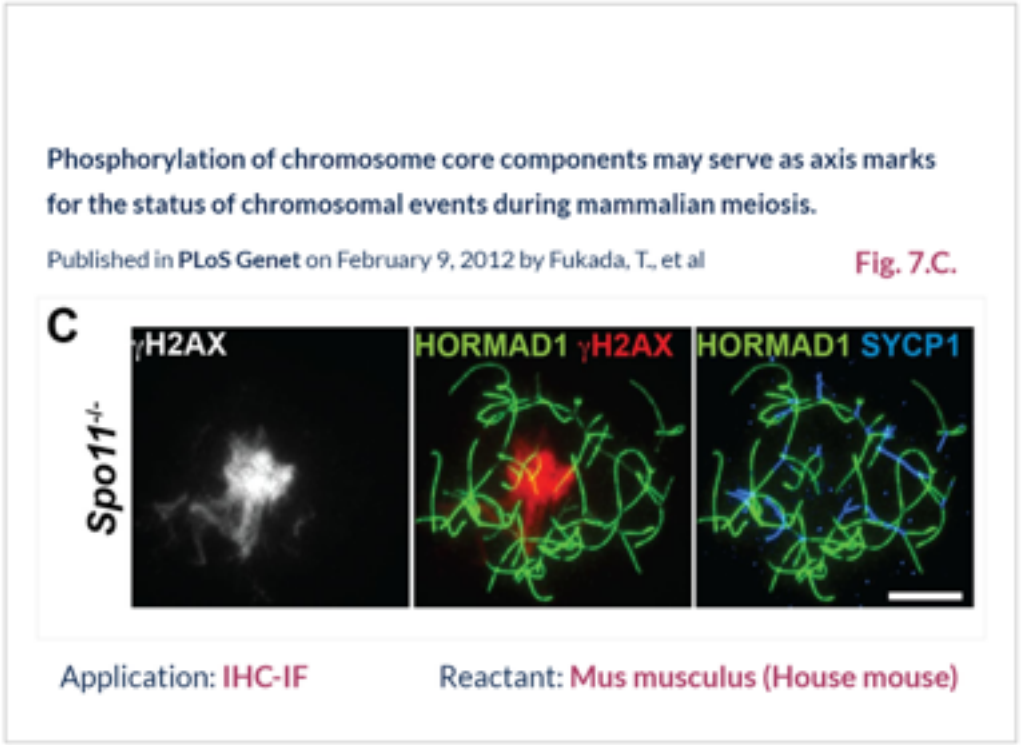
CiteAb ranks every antibody by citations

- Every antibody is ranked by the number of citations in the published literature
- Simple, impartial and transparent method to rank antibodies



Match antibodies to your experimental needs

- Match the antibodies to your experimental needs;
  - Application
  - Species of tissue
  - Clonality
  - Host species
  - Conjugate
- Filter to find the most cited antibody that meets your criteria
- Pick more than one antibody



Why does chosing the most cited work?

Advantages:

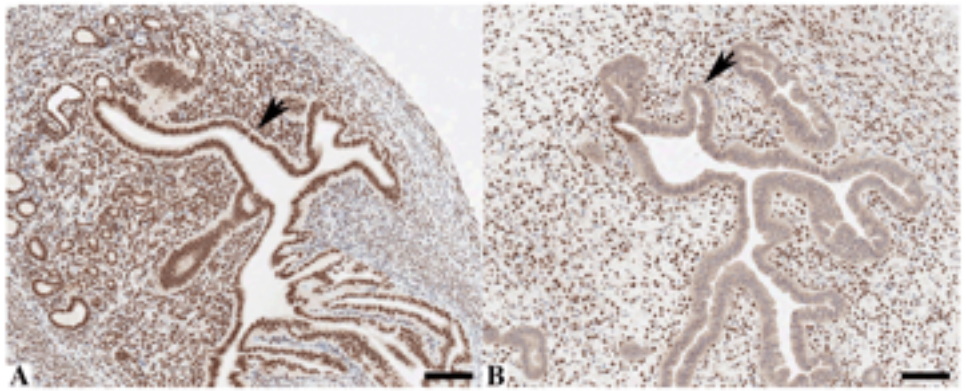
- Independent data showing the antibody your peers found to be the best
- Avoid antibodies that give no results
- The most published data to inform your experimental design

Limitations:

- It favours the oldest antibody (but that works!)
- You still need to validate it

Always validate your antibodies!

- Antibodies might be well cited, but then prove to be non-specific
- CiteAb is now including validation data to help users avoid this
- But no matter how you find an antibody you need to validate it!



Loss of ARID1A expression in mouse uterus epithelium following conditional KO in the epithelium.
Wildtype stromal tissue staining was unchanged
(Howat W et al F1000Research 2015, 3:244)

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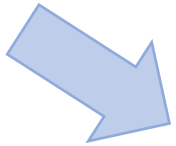
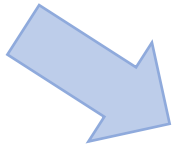
How to find the right antibody for the job?

Start with the most cited antibodies that match your requirements



…and any others that you feel warrent comparison



Validate them in your own laboratory

Start with the most cited antibody

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How to find the right antibody for the job?

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Jan Voskuil — Aeonian Biotech
Andy Chalmers — University of Bath, UK. CiteAb

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Next Webcast in Antibody Validation: a 9-part series

1.	Andreas Pluckthun	:	The different antibody formats
2.	Glenn Begley	:	Antibodies and the reproducibility crisis in biological science
	Cecilia Williams	:	The Erß story – is your antibody like this?
3.	Jan Voskuil	:	Beware the supplier OEM
	Andy Chalmers	:	Finding antibodies in the Antibody Databases
4.	**Anita Bardowski**	**:**	**Which antibody are you looking for? The RRID**
	Jan Voskuil	**:**	**Points to note on the supplier datasheets**
5.	Giovanna Roncador:	:	Correct positive and negative controls in validation
6.	Aldrin Gomes	:	Standard technology: "even" Western blots are non-trivial
	Jim Trimmer	:	IHC issues in brain sciences
7.	Travis Hardcastle	:	Cell KO technology
	Alejandra Solache	:	Validating Antibodies with KO technology
8.	Mike Taussig	:	Validating antibodies using array technologies
	Fridjhof Lund-Johansen	:	Mass spectroscopy for mass validation
9.	Andrew Bradbury	:	Why publish sequences?
	Andreas Pluckthun	:	What are the coming alternatives ?

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Validation of Commercial tool Antibodies

How to find the right antibody for the job?

The Antibody Society Webcast series – Antibody Validation #3

Presented by Jan Voskuil and Andy Chalmers

Produced and Directed by Simon L. Goodman

Production Manager Fran Breden

Writen by Simon Goodman

https://www.antibodysociety.org/

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Validation of Commercial Tool Antibodies

An Antibody Society Webcast series

https://www.antibodysociety.org/

Administrative Support: Dr. Fran Breden and Dr. Mini Muralidharan

Executive Director: Dr. Jan Reichert

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