

# Commitment to **antibody performance**

Researchers need antibodies that bind to the right target and work in their applications every time. Underperforming antibodies can lead to inconsistent results, a lack of reproducibility, and a waste of time and money. To help ensure superior antibody results, we've expanded our specificity and validation\* testing methodologies using a 2-part approach for advanced verification.

## THE CHALLENGE

Antibodies are some of the most critical research reagents used in the lab. Poor specificity or application performance can significantly frustrate the ability to obtain good results, which can cause critical delays.

## Invitrogen™ antibodies are currently undergoing a rigorous 2-part testing approach

- Part 1. Target specificity verification.
- Part 2. Functional application validation.

### Part 1. Target specificity verification

Helps ensure the antibody will bind to the correct target; our antibodies are being tested using at least 1 of the following methods:

- Immunoprecipitation/mass spectrometry
- Knockout
- Knockdown
- Independent antibody verification
- Cell treatment
- Relative expression
- Neutralization
- Peptide array
- Orthogonal method

**Binds to correct target**

### Part 2. Functional application validation

These tests help ensure the antibody works in particular application(s) of interest, which may include (but are not limited to):

- Western blotting
- Immunofluorescent imaging
- Flow cytometry
- ChIP
- Immunohistochemistry

**Works in application**

**Validation**

## THE SOLUTION

Thermo Fisher Scientific is working to redefine antibody performance with a comprehensive approach to how antibodies are evaluated and validated. By combining specificity testing with extensive application validation data, we offer you confidence that our high-quality Invitrogen™ antibodies will enable superior performance in your research.

\* The use or any variation of the word "validation" refers only to research use antibodies that were subject to functional testing to confirm that the antibody can be used with the research techniques indicated. It does not ensure that the product(s) was validated for clinical or diagnostic uses.

Find out more at [thermofisher.com/antibodyvalidation](http://thermofisher.com/antibodyvalidation)

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