

UltraMAB[®]

Antibody Specificity Screening Service


Testing your antibody against
the human proteome for specificity



Is Your Antibody Specific?

- ★ Identify interacting proteins and potential off-target effects to eliminate cross-reactivity concerns
- ★ Accelerate the best candidate for your antibody drug development
- ★ Proprietary high-density human protein arrays include many membrane proteins

The UltraMAB[®] Specificity Screening Service leverages OriGene's proprietary technology platform, High-Density Protein Microarray, to test the specificity of an antibody, or to screen for the target(s) of an antibody or a small molecule. The current service offers our standard 10,000 or platinum 17,000 human protein array.

 **UltraMAB[®]** is the only antibody on the market tested for specificity

UltraMAB®

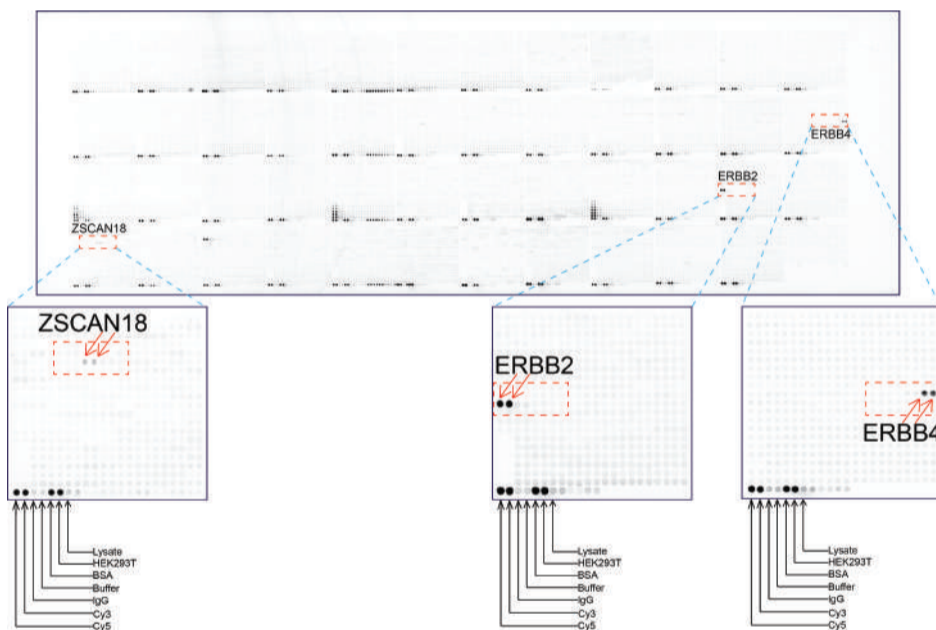
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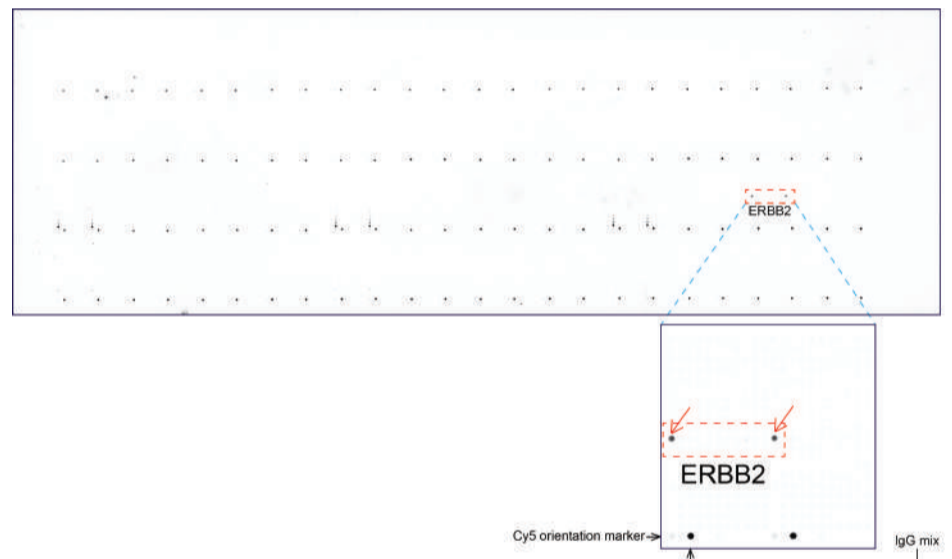
Case study: Specificity tests of HER2 antibodies (clones 4B5 vs. UMAB36)

A semi-quantitative IHC assay uses the HER2 (ErbB2) antibody to determine HER2 protein overexpression in breast cancer tissues. The specificity of the HER2 antibody (e.g. clone 4B5) is critical as the IHC test results are utilized in patient treatment decisions. Using OriGene's proteome-wide protein microarray, it has been revealed that the 4B5 antibody is not specific to the HER2 protein. As shown in the graph below (left panel), this antibody also reacts with ZSCAN18 and HER4 (ErbB4). In contrast, OriGene's HER2 UltraMAB® (clone UMAB36, right panel) only recognizes the HER2 protein and is specific.

Commercial HER2 antibody (4B5)



OriGene HER2 UltraMAB® (UMAB36)



UltraMAB® Specificity Screening Service

- ★ 17,000 proteins covered with built-in replicates
- ★ Require only 5ug of purified antibody
- ★ Suitable for poly- and monoclonal antibodies against a human protein
- ★ Over 100 UltraMABs and bulk antibody manufactured under GMP conditions available

Please inquire at UltraSpec@origene.com or call 1-888-267-4436