Secondary Antibodies

Secondary antibodies play an important role in many research applications, including immunofluorescence, immunohistochemistry, Western blot, ELISA, flow cytometry, and more. Choosing the right secondary antibody will improve your results by increasing signal detection while reducing background and nonspecific staining. Some companies actually rely on you, the scientist, to perform their quality control testing—not so at Rockland. Because we produce our own antiserum at our animal facilities, and purify and test each antibody in our laboratories, we can guarantee the quality of every product. Furthermore, each product line is multiaassay validated to ensure uncompromised research conditions. Rockland products are guaranteed to give predictable, repeatable results. We are one of the most referenced companies in the industry and continue to collaborate to develop products such as isoform-specific AKT antibodies, green fluorescent protein (GFP) and red fluorescent protein (RFP) antibodies, and fluorochrome-conjugated secondary antibodies.

**Rockland Antibodies and Assays**
For info: 800-656-7625
www.rockland-inc.com

Genome-Wide Knockout Cell Lysates

EdiGene Knockout Cell Lysates can be used to validate antibodies for specificity or used as high-quality negative controls for Western blot analysis. Performance and specificity are critical for antibodies to be used effectively in research, diagnostic, and therapeutic applications, yet reagents to validate antibody specificity are currently lacking. These lysates are specifically designed to drastically improve the process by which antibody performance is verified and target specificity is confirmed. Derived mostly from human embryonic kidney 293T (HEK293T) and HeLa cell lines, EdiGene Knockout (KO) Cell Lysates have been optimized through the use of genome editing technology and validated at the genomic level through PCR and Sanger-sequencing techniques to ensure the accuracy and knockout of the target gene. Each lysate product is sold in kit format consisting of a KO cell lysate and a parental cell lysate, which are immediately available from OriGene for the academic and industrial research markets.

**OriGene**
For info: 888-267-4436
www.origene.com

ELISA Optimization Kits

Innova Biosciences FlexLISA kits are designed for the development and optimization of sandwich ELISA assays to detect the presence of any antigen with a high affinity for any antibody pair in complex samples (serum, plasma, urine, and more). Benefits of the FlexLISA kit include easy antibody labeling via Light ning-Link technology, plus cost-effectiveness, as 40 times less capture antibody is used. Researchers can use their antibodies of choice and conjugate up to three capture and three detection antibodies. The kits use a rapid, one-step protocol, employing preblocked microtiter well strips coated with biotin. The FlexLISA assay is run by adding the sample and the antibody mix to the wells, incubating for 1 hour, washing, then reading the assay plate. FlexLISA is ideal for quick, reliable ELISA assay development, antibody pair screening, and ELISA assay optimization.

**Innova Biosciences**
For info: 855-466-6821
www.innovabiosciences.com/products/flexlisa-kits/flexlisa-kits

Biotinylated CD3 Products

CD3 (cluster of differentiation 3) is a common target for bispecific antibodies. ACROBiosystems provides a comprehensive panel of CD3 proteins, including the exclusive Biotinylated Human CD3 epsilon as well as Biotinylated Human CD3E and CD3D heterodimers. We are also the only supplier for Mouse CD3 epsilon protein. CD3E, together with CD3-gamma, CD3-delta, and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor–CD3 protein complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways.

**ACROBiosystems**
For info: 800-810-0816
www.acrobiosystems.com

ChIP-Validated Antibody

Finding the right validated antibody can be time-consuming. To shorten your time and enable quality searches, we are pleased to offer the world’s largest ChIP-seq antibody bank to ensure that you find the most suitable one. At Abclonal, we have nearly 100 existing chromatin immunoprecipitation (ChIP)-validated antibodies with a higher specificity than most commercial antibodies, which are used for a wide range of epigenetics studies, from those investigating developmental processes to those researching various diseases.

**Abclonal**
For info: 888-754-5670
https://abclonal.com

Brilliant Violet Dye Antibodies

Brilliant Violet dye conjugated secondary antibodies from Jackson ImmunoResearch allow the addition of more colors to multiple labeling assays. With appropriate filters, Brilliant Violet 421 (BV421) and Brilliant Violet 480 (BV480) provide two options, with emission in the violet and blue channels respectively. Effective five-color fluorescent labeling is possible when BV421 and BV480 are combined with Alexa Fluor 488, Rhodamine Red-X, and Alexa Fluor 647 conjugates. If nuclear counterstaining is desired, four-color antibody staining is possible using BV421, BV480, Alexa Fluor 488, and Rhodamine Red-X. Switching the nuclear stain from DAPI (4’,6-diamidino-2-phenylindole; emission in the blue region) to DRAQ5 (deep red anthraquinone 5, which has red emission) frees the violet–blue region of the spectrum to accommodate the two Brilliant Violet dyes. DRAQ5’s excitation and emission profiles overlap those of Alexa Fluor 647. BV421 and BV480 are available conjugated to a range of secondary antibodies recommended for multiple labeling due to their minimal cross-reactivity.

**Jackson ImmunoResearch**
For info: 800-367-5296
www.jacksonimmuno.com

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