

## Anti-Sense Oligonucleotide (ASO) Antibody Development

Rockland's antibody development capabilities include our proven ability to generate critical antibody reagents for the preclinical detection and characterization of specific ASO under consideration as drug candidates. Such antibodies exhibit sequence or modification-specific binding properties depending on the intended use and are suitable for standard applications, including ELISA and immunohistochemistry (IHC).

Rockland has successfully worked with diverse nucleic acid chemical structures for antibody development and works closely with clients to understand the biochemical properties of the target nucleic acids and subsequently design appropriate antibody generation strategies.

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*We use Rockland for the difficult projects like anti-DNA and anti-oligo because Rockland has demonstrated success and understands our timelines.*

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### Comprehensive Single Domain Services

#### Antigen Preparation

- Normal backbone/modified backbone
- Conjugation
- Immunogen qualification

#### Antibody Purification

- Specialized affinity purification methods for anti-oligonucleotide antibodies

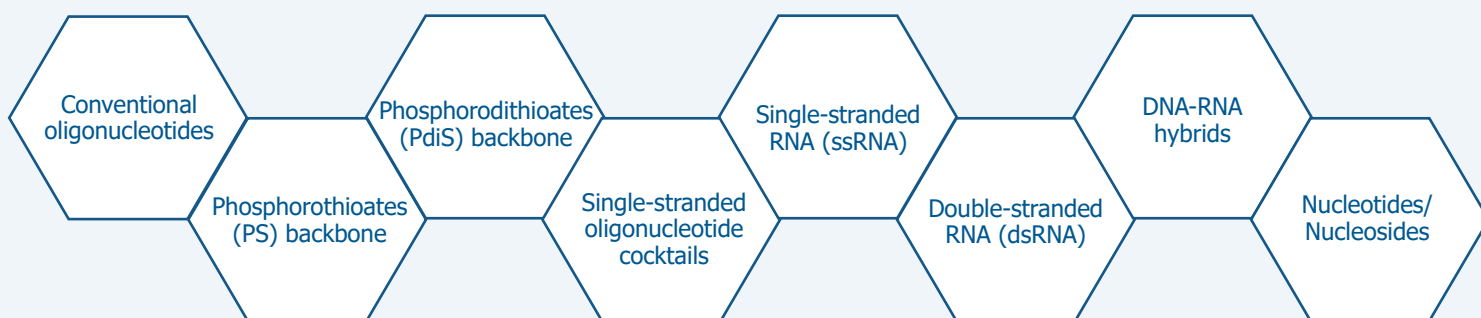
#### Antigen Development

- Choose between polyclonal or monoclonal
- Immune response monitoring by antisera titration

#### Antibody Characterization

- Fit-for-purpose validation
- Affinity determination
- Assay development

### Nucleic Acid Chemical Structures



# Producing an Oligonucleotide Antibody

Rockland generates oligonucleotide-specific antibodies as either polyclonal or monoclonal reagents. Our optimized ASO antibody process provides the desired sensitivity and specificity to most required specifications. The workflow presented below results in a well-validated antibody suitable for analytical assay development.

