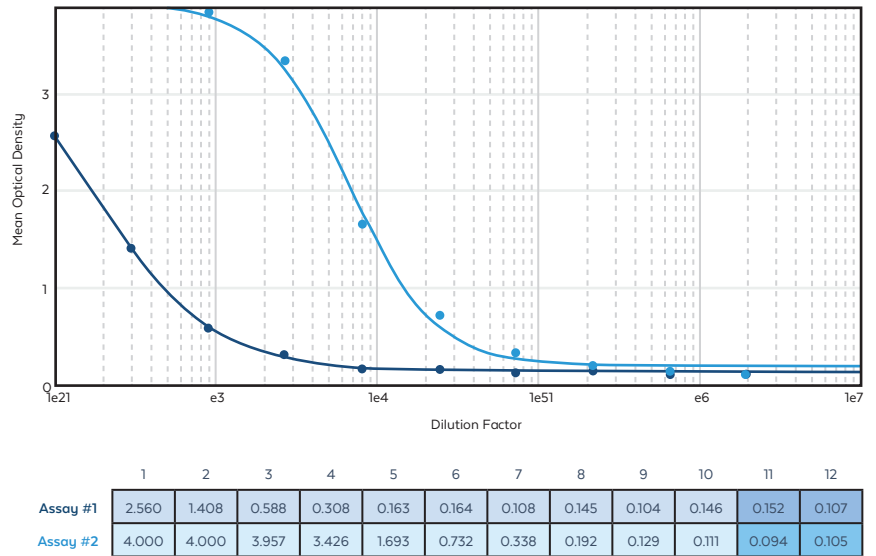


ModDetect™ Anti-Phosphorothioate (PS) Antibody Mouse Monoclonal

The first of its kind, Rockland's ModDetect™ Anti-PS Monoclonal is a specialty antibody reagent developed to detect phosphorothioate (PS) modifications independent of the sequence or location of the modification. This makes the Anti-PS antibody useful for oligonucleotide therapeutic development, mRNA vaccine development, or research of genetic diseases or gene expression.

Figure 1. ELISA demonstrating the specificity of the immune response from one rabbit. Immulon HBX ELISA plates were coated with 100 ng/well of BSA conjugated 3' or 5' oligonucleotides with identical sequences. Anti-sera was diluted 1:100 then 3-fold serially diluted. Antibodies showed a preference to phosphorothioate backbone-modified oligonucleotides (**Assay #2**) over phosphodiester backbone (PO) oligonucleotides (**Assay #1**) independent of orientation.



Uniquely Specific

Detect any PS modification independent of the sequence or location



Time Saving

Save time in your discovery and pre-clinical processes



Reproducible

In-house, US-based manufacturing ensures reproducible results

Specifications

Description:	Anti-Phosphorothioate (MOUSE) Antibody
Tested Applications:	ELISA
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	<i>Determined by clone selection</i>
Subtype:	<i>Determined by clone selection</i>
Immunogen Type:	Modified Oligonucleotide
Uses:	RNA interference, RNA modulating therapies, antisense oligonucleotide platforms, RNA degradation prevention, RNA-targeting therapy e.g. neuroscience, CNS, liver, cardiac, muscle

CUSTOM OLIGONUCLEOTIDE ANTIBODIES

Rockland generates oligonucleotide-specific antibodies as either polyclonal or monoclonal reagents. Our optimized anti-oligo 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.

