

Datasheet for 200-306-MU7**ModDetect® Phosphorothioate Biotin Clone PS01****Overview**

Description:	ModDetect® Phosphorothioate Biotin Clone PS01 - 200-306-MU7
Item No.:	200-306-MU7
Size:	100 µg
Host Species:	Mouse

Product Details

Background:	Current studies focusing on RNA therapeutics use as potential drugs antisense oligonucleotides (ASO), short interfering RNA (siRNA), and micro RNA (miRNA). The choice of oligonucleotide chosen for a specific treatment is dependent on many factors. However, all oligo therapeutics must be modified in some manner, as unmodified nucleotides are difficult to identify and are highly susceptible to degradation by endogenous nucleases. Modifications can be created within the sugar-phosphate backbone (first generation), the ribose sugar (second and third generation), or at multiple locations (third generation). Antibodies to modified oligonucleotides are useful for basic immunoassays including, ELISA, IHC, and IF. In addition, several types of toxicology assays (immunogenicity assays), such as antibody-drug assays (ADA) or other pharmacokinetic (PK) and pharmacodynamic (PD) studies require oligonucleotide antibodies as analytical tools for general research and preclinical trial experiments. Antibodies to an oligonucleotide therapeutic allow researchers to assess cellular uptake, tissue distribution, and can serve as a positive control for immunogenicity studies.
Synonyms:	Phosphorothioate, PS, ASO, anti-sense oligonucleotide, siRNA, RNA therapeutic, Biotin Conjugated Anti-Phosphorothioate, Phosphorothioate BAC
Host Species:	Mouse
Conjugate:	Biotin
Clonality:	Monoclonal
Clone ID:	PS01
Format:	IgG1

Target Details

Immunogen Type:	Other
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Immunogen:	ModDetect® Phosphorothioate Biotin Clone PS01 was prepared from cell culture supernatant produced by repeated immunizations with a proprietary oligo sequence.
Purity/Specificity:	ModDetect® Phosphorothioate Biotin Clone PS01 is directed against phosphorothioate modified backbone. This product was Protein A purified from monospecific supernatant and conjugated to biotin.
Relevant Links:	• 200-301-MU7 SDS

Application Details

Application Note:	ModDetect® Phosphorothioate Biotin Clone PS01 has been validated for use in ELISA. In antigen-down or immunometric ELISAs, the ModDetect® Phosphorothioate Biotin Clone PS01 preferentially detects phosphorothioate modified phosphate groups over native phosphodiester sugar-phosphate backbones. It is also likely to be functional in IF and IHC assays, however, its sensitivity, specificity, and conditions for optimal use in these assays has not yet been determined. All assays should be optimized by the user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

**Vial**

ModDetect® Phosphorothioate Biotin

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