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Datasheet for 200-342-MV0

ModDetect® Phosphorothioate DyLight™549 Clone PS04

Overview

Description:	ModDetect® Phosphorothioate DyLight™549 Clone PS04 - 200-342-MV0
Item No.:	200-342-MV0
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, DyLight™ 549 Conjugated
Host Species:	Mouse
Conjugate:	DyLight™ 549
Clonality:	Monoclonal
Clone ID:	PS04
Format:	IgG2a
F/P Ratio:	6.4

Target Details

Immunogen Type:	Other
Immunogen:	ModDetect® Phosphorothioate DyLight™549 Clone PS04 was prepared from cell culture supernatant produced by repeated immunizations with a proprietary oligo sequence.
Purity/Specificity:	ModDetect® Phosphorothioate DyLight™549 Clone PS04 is directed against phosphorothioate modified backbone. This product was Protein A purified from monospecific supernatant and DyLight™ 549 Conjugated.

Application Details

Application Note:	ModDetect® Phosphorothioate DyLight™549 Clone PS04 has been validated for use in ELISA. In antigen-down or immunometric ELISAs, the ModDetect® Phosphorothioate DyLight™549 Clone PS04 preferentially detects phosphorothioate modified phosphate groups over native phosphodiester sugar-phosphate backbones. This ModDetect® Phosphorothioate DyLight™549 Clone PS04 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

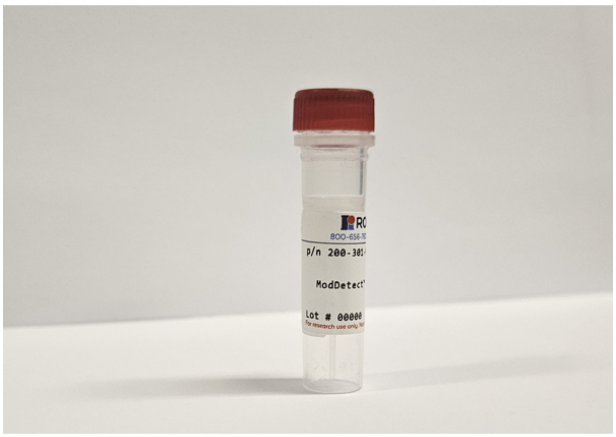
Physical State:	Lyophilized
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Vial
ModDetect® Phosphorothioate DyLight™

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