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Datasheet for 200-310-NF9S

ModDetect® 2'-O-Methyl (2'OMe) CY5 Clone OME05

Overview

Description:	ModDetect® 2'-O-Methyl (2'OMe) CY5 Clone OME05 - 200-310-NF9S
Item No.:	200-310-NF9S
Size:	25 µL
Applications:	Dot Blot
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:	2'-O-Methyl, 2'OMe, ASO, anti-sense oligonucleotide, siRNA, RNA therapeutic, gapmer, aptamer, CY5 Conjugated Anti-2'-O-Methyl (2'OMe), 2'-O-Methyl Cy5 Conjugated, Cyanine 5
Host Species:	Mouse
Conjugate:	Cy5™
Clonality:	Monoclonal
Clone ID:	OME05
Format:	IgG1
F/P Ratio:	4.5

Target Details

Immunogen Type:	Other
Immunogen:	ModDetect® 2'-O-Methyl (2'OMe) Clone OME05 was prepared from cell culture supernatant produced by repeated immunizations with a proprietary oligo sequence.
Purity/Specificity:	This Protein A purified ModDetect® 2'-O-Methyl (2'OMe) Clone OME05 is directed against 2'OMe modified ribose sugar. This product was Protein A purified from monospecific supernatant and conjugated to Cy5.

Application Details

Tested Applications:	Dot Blot
Application Note:	ModDetect® 2'-O-Methyl (2'OMe) CY5 Clone OME05 has been validated by dot blot. In antigen-down or immunometric ELISAs, the ModDetect® 2'-O-Methyl (2'OMe) CY5 Clone OME05 preferentially detects 2'OMe modified ribose sugar groups over native deoxyribose or ribose sugars. 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)
Concentration:	0.99 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

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.

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