

Datasheet for 200-306-NF2**ModDetect® 2'-O-Methoxyethyl (2'MOE) Biotin Clone MOE4****Overview**

Description:	ModDetect® 2'-O-Methoxyethyl (2'MOE) Biotin Clone MOE4 - 200-306-NF2
Item No.:	200-306-NF2
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:	2'-O-Methoxyethyl, 2'MOE, ASO, anti-sense oligonucleotide, siRNA, RNA therapeutic, gapmer, aptamer, Biotin Conjugated Anti-2'-O-Methoxyethyl, 2'-O-Methoxyethyl BAC
Host Species:	Mouse
Conjugate:	Biotin
Clonality:	Monoclonal
Clone ID:	MOE4
Format:	IgG1

Target Details

Immunogen Type:	Other
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Immunogen:	ModDetect® 2'-O-Methoxyethyl (2'MOE) Biotin Clone MOE4 was prepared from cell culture supernatant produced by repeated immunizations with a proprietary oligo sequence.
Purity/Specificity:	This Protein A purified ModDetect® 2'-O-Methoxyethyl (2'MOE) Biotin Clone MOE4 is directed against 2'MOE modified ribose sugar. This product was Protein A purified from monospecific supernatant conjugated to biotin.

Application Details

Application Note:	ModDetect® 2'-O-Methoxyethyl (2'MOE) Biotin Clone MOE4 has been validated for use in ELISA. In antigen-down or immunometric ELISAs, the ModDetect® 2'-O-Methoxyethyl (2'MOE) Biotin Clone MOE4 preferentially detects 2'MOE 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.
ELISA:	50,000 - 125,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/ml
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® 2'-O-Methoxyethyl (2'MOE) Biotin Clone MOE4

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