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Datasheet for KNA-301

ModDetect® 2'-O-Methyl (2'OMe) Biotinylated Panel

Overview

Description:	ModDetect® 2'-O-Methyl (2'OMe) Biotinylated Panel - KNA-301
Item No.:	KNA-301
Size:	1 Set

Product Details

Synonyms:	2'-O-Methyl, 2'OMe, ASO, anti-sense oligonucleotide, Biotinylated 2'-O-Methyl
Conjugate:	Biotin
Detection Kit Type:	Combo Pack

Application Details

Application Note:	The set includes five ModDetect® 2'-O-Methyl biotin labeled detection reagents [clone OME01 (200-306-NF5S), clone OME02 (200-306-NF6S), clone OME03 (200-306-NF7S), clone OME04 (200-306-NF8S), and clone OME05 (200-306-NF9S)] each supplied as a 25 µL aliquot at approximately 1.0 mg/mL, curated by binding characteristics, and three rabbit Anti-Mouse IgG reporter molecules labeled with peroxidase (S000-03S), 488 λ fluorophore (S000-41) and 649 λ fluorophore (S000-43) each supplied as 100µg. The different binding characteristics create opportunities to generate highly optimized immunoassays independent of oligonucleotide sequence, as opposed to spending significant efforts to optimize assays to underperforming reagents. Designed for use in various immunoassays, such as ELISA, IF, and IHC. NOTE: Panel detection reagents components are provided in a 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride buffer, pH 7.2. This buffer contains 0.01 % Sodium Azide as a preservative and 10 mg/mL carrier protein as a stabilizing reagent.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Physical State:	Liquid and Lyophilized

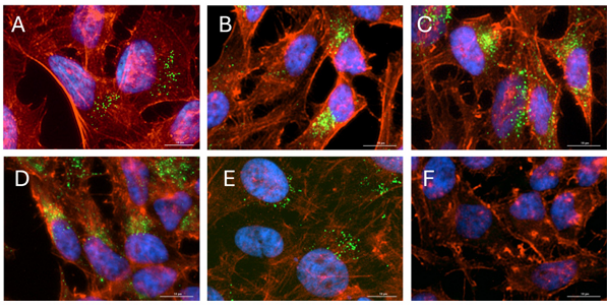
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Please see product page for complete product description. Store five 2'-O-Methyl vials at -20°C or below prior to opening. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing. Store three reporter molecule vials at 4°C or -20°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



Kit Box
The ModDetect® 2'-O-Methyl Biotinylated Panel includes the following components: five biotin labeled ModDetect® 2'-O-Methyl detection reagents OME01, OME02, OME03, OME04, and OME05 and three reporter molecules labeled with peroxidase, 488 λ fluorophore and 649 λ fluorophore.



Immunofluorescence Microscopy

Rockland Immunochemicals ModDetect® Biotinylated 2'OMe antibodies detect FDA-approved Lumasiran, an siRNA used to treat Primary Hyperoxaluria type 1 (PH1). Briefly, HeLa cells were transfected with Lumasiran, fixed with 4% formaldehyde, and permeabilized with 0.3% Triton-X 100. After being blocked with 5% Goat Serum (p/n D204-00-0050), cells were incubated overnight at 4 °C with a panel of monoclonal antibodies separately, each reactive to the O-Methyl (OMe) chemical modification used to stabilize the siRNA. Biotinylated primary antibodies were used at dilutions ranging from 1:100 to 1:1000 which were subsequently detected using Streptavidin DyLight 488 secondary antibody (p/n S000-41) for 1-hour at room temperature to identify the intracellular localization of siRNA (green). Cells were then counterstained with Phalloidin for actin to visualize the cytoskeleton (red) and Hoechst for nuclei (blue). Panel images show individual clones as follows (A) OME01 (p/n 200-306-NF5), (B) OME02 (p/n 200-306-NF6), (C) OME03 (p/n 200-306-NF7), (D) OME04 (p/n 200-306-NF8), (E) OME05 (p/n 200-306-NF9). No staining is observed for siRNA in a negative control (panel F) where HeLa cells were similarly treated with antibodies but not transfected with siRNA. Only clone OME01 shows detection of endogenous O-methylation under certain conditions of staining.

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