

SiaFind™ α2,6-Specific Reagent SureLight® 488 Kit contents

Catalog #	Description	Size	M. W.	Storage
SK2601F	SiaFind™ α2,6-Specific Reagent SureLight® 488 (SP2602F-0.1MG)	0.1 mL (1 mg/mL)	34,600	-20°C, up to 6 months
	5X SiaFind™ Binding Buffer 2 (BA0102)	100 mL		4 to 25°C

This product is for research use only and not for resale or for any use in the manufacture of a therapeutic or for any diagnostic purpose.

Product Description

SiaFind™ α2,6-Specific Reagent SureLight® 488 Kit (SK2601F) contains a recombinant protein engineered from *Polyporus squamosus* lectin (PSL). This highly purified affinity reagent is designed for sensitive, robust, and specific detection of Siaα2,6Gal commonly found in glycoconjugates (glycoproteins, glycolipids, and oligo- or polysaccharides). Applications include use as a primary probe in ELISA, Western blot, and immunohistochemistry. It is not recommended for flow cytometry. Each kit also includes a 5X binding buffer to ensure maximum reagent specificity and ease of use.

Each **SiaFind™ α2,6-Specific Reagent** has a molecular mass of about 34 kD and works with or without bivalent metal ions. It is 8xHis-tagged at its *N*-terminus, and an anti-polyhistidine antibody can be used for detection or, in the case of the fluorescent version, directly detected. The 8xHis tag may be removed by FasTEV™ (Cat #GE0501), a TEV protease with enhanced stability and catalytic activity.

SiaFind™ α2,6-Specific Reagent SureLight® 488 is made for fluorescence detection (Ex 496 nm; Em 517 nm). Applications include Western Blot, FLISA, flow cytometry, fluorescence microscopy, etc.

Form and Storage

The **SiaFind™** reagent is supplied as a 1 mg/mL solution in a storage buffer (50 mM EPPS, 200 mM NaCl, pH 7.5). Concentration is determined by spectrophotometry using E^{1%} 22.0. The actual absorbance at 280 nm is calculated by measuring the observed absorbance at 280 nm and subtracting the absorbance at 493 nm multiplied by a correction factor of 0.11; $A_{280\text{actual}} = A_{280\text{observed}} - (A_{493} \times 0.11)$. Store at 4°C for up to 5 days or -20°C for up to 6 months protected from light. **Aliquoting is recommended to avoid repeated freeze-thaw cycles.** Store in dark tubes, and perform experiments protected from light.

All 5X buffers should be diluted to 1X with ultrapure water. For instance, to make 250 mL, add 50 mL of any 5X buffer to 200 mL water and mix by inversion. All buffers may be stored at 4 to 25°C.

Western Blotting Guide

Use 1.0 μg fetuin and/or 6'-sialyllactose-BSA as positive control.

Prepare 1X SiaFind™ Binding Buffer 2 (SBB2, 25 mM EPPS, 100 mM NaCl, pH 7.5) from the 5X binding buffer (Cat #BA0102). Prepare SBB2 plus 0.1% Tween-20 (SBB2T) for membrane washing.

Prepare SBB2T with 5% globulin-free BSA for blocking. Incubate the membrane at room temperature for 1 h with agitation.

Prepare 0.5 μg/mL **SiaFind™ α2,6-Specific Reagent SureLight® 488** (SP2601F) in SBB2T with 0.5% globulin-free BSA.

Incubate membrane in the probe solution at room temperature for 1 h with agitation protected from light. Rinse membrane 3 X 5 min with SBB2T.

Rinse membrane 3 X 5 min with SBB2. Detect fluorescence using an appropriate imaging system.

Note: Common buffers, e.g., TBS and PBS, may be used as binding buffer without significant loss of binding signal.