

### Custom Service for Recombinant Protein Conjugation

Abnova offers high quality, efficient and cost-saving conjugation service between protein and fluorescent dyes, phycobiliproteins, streptavidin, biotin and enzymes. Since every protein has its own unique characteristics, conjugation needs to be optimized. 0.2mg of total protein of interest will be tested and analyzed prior to mass labeling. The tested sample will be mixed with mass conjugate product for final purification. We will complete the conjugation within 2-3 weeks from the time we receive the protein sample.

### General Working Progress of Protein Conjugation

- Evaluation and Discussion of Conjugation Requirement and Service
- Completion of the Custom Conjugation Specification
- Confirmation of Receipt of Protein Sample
- Conjugation Buffer Exchange
- Protein Concentration and Volume Analysis
- Test-Scale Conjugation Optimization
- Mass Protein Labeling
- Chromatographic Gel Purification
- Spectrophotometer Measurement
- COA, Packing, and Shipment

### Table of Labeling Molecules and Excitation/Emission Wavelengths

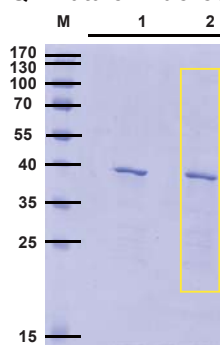
Labeling Molecule	Excitation Max (nm)	Emission Max (nm)
Biotin	-	-
HRP	-	-
Alexa 488	490	525
FITC	490	525
PE	535	575
TRITC	546	575
Cy3	554	568
Alexa 555	555	580
Alexa 594	590	617
Texas Red	595	616
APC	650	660
Alexa 647	650	665
Cy5	650	670
DyLight 650	652	672

#### Special Notes:

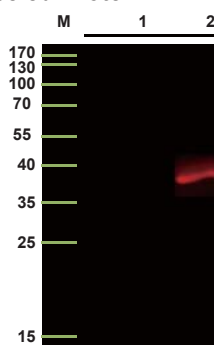
1. The protein of interest should not contain albumin, gelatin, or other amine-containing stabilizers. Purification of protein from ascites fluid, serum, or cell culture medium or removal of stabilizer proteins prior to conjugation will result in additional cost to the customer.
2. Minimum quantity of protein conjugation is 0.2mg. Minimum concentration is 0.1mg/ml.

### Example

#### QC Data of Fluorochrome-Labeled Protein



Coomassie Brilliant Blue R-250 Stained SDS-PAGE Gel



DyLight 650 fluorescent signal on SDS-PAGE Gel

lane M - Marker (2ul/lane)  
 lane 1 - LTBP1 (403-500) Protein (5ul/lane)  
 lane 2 - DyLight 650 conjugated LTBP1 (403-500) Protein (5ul/lane)