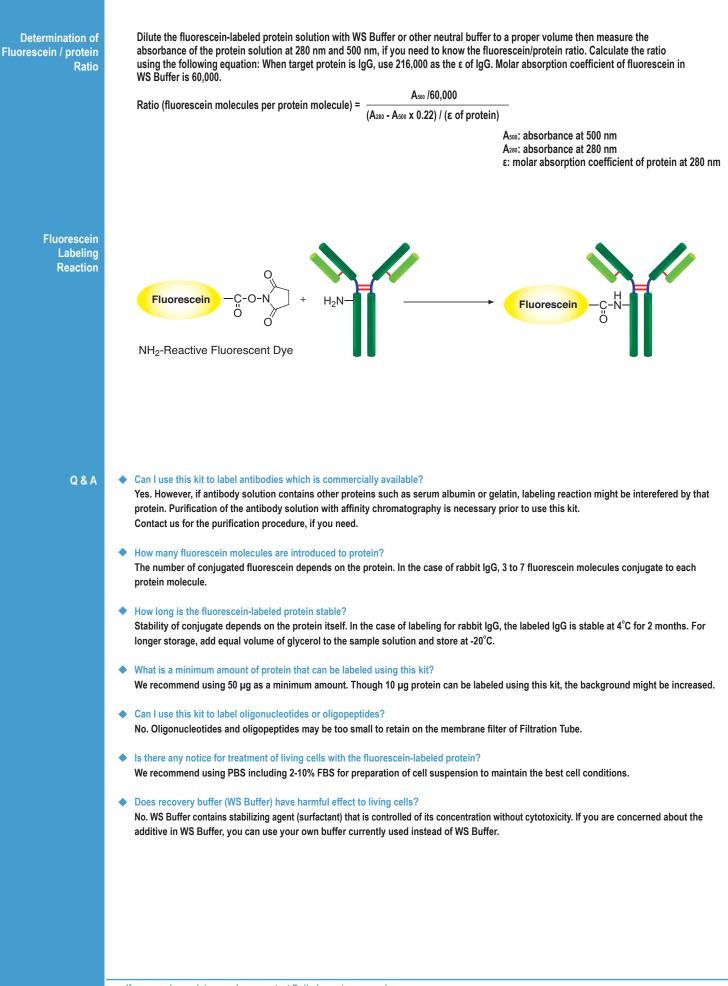
	Fluorescein			H2 Te ersion) is available at http://w		Manual
General Information	Fluorescein Labeling Kit - NH ₂ is primarily used for the preparation of fluorescein-labeled antibody for immunostaining and cellular proteins for tracing. NH ₂ -Reactive Fluorescein, a component of this kit, has a succinimidyl ester group, and can easily make a covalent bond with an amino group of the target protein or other macromolecules without any activation process. Filtration Tube included in this kit is used for sample protein in removing small molecules such as Tris buffer and amine compounds that interfere with the assay or labeling reaction. The labeling process is very simple. Add the NH ₂ -Reactive Fluorescein to protein solution on a filter membrane, and incubate at 37°C for 10 min. Excess Fluorescein molecules can be removed by a filtration tube. The excitation and emission wavelengths of the fluorescein-labeled proteins are 500 nm and 525 nm, respectively. This kit contains the necessary reagents for labeling, including the storage buffer for conjugates.					
Kit Contents	- NH ₂ -Reactive Fluorescein - Reaction Buffer		WS Buffer Filtration Tube			
Capacity	Three samples labeling - Sample requirement: Molecular weight > 50,000; amount: 50-200 μg					
Storage Condition	Store at 0-5°C. This kit is stable for 1 year at 0-5°C before opening.					
Required Equipment	- 10 µl and 200 µl adjustable pip - Microcentrifuge		Incubator (37°C) DMSO	- Microtubes		
Precaution	 If the target protein solution contains other proteins with molecular weight larger than 10,000, such as serum albumin or gelatin, purify the protein solution, and use the purified target proteins for fluorescein labeling, because it might interfere the labeling reaction. If the protein solution contains small insoluble materials, centrifuge the solution, and use the supernatant for the labeling. The droplets which induced from the dry inhibitor of membrane, are occasionally found inside Filtration Tube while storing the kit at 0-5°C or after returning to room temperature. This phenomenon does not affect the performance. 					
General Protocol		-			•	
	Step 1. Add 100 μl WS Buffer and the sample solution containing 50-20 μg protein ^{a)} to a Filtration Tube.	Step 2. Mix the solution wit several times, and o x g for 10 min. ^{b)}		Step 3. Add 10 μl DMSO to NH ₂ -Reactive Fluorescein, and dissolve with pipetting. ^{c)}	Step 4. Add 100 µl Reaction Filtration Tube, and NH ₂ -Reactive Fluore the Filtration Tube a	l then add 8 µl ^{d)} escein solution to
	Step 5. Incubate the tube at 37°C for 10 m	Step 6. in. Add 100 µl WS Buff Filtration Tube, and 8,000 x g for 10 min filtrate.	centrifuge at	Step 7. Add 200 µl WS Buffer to the Filtration Tube, and centrifuge at 8,000 x g for 10 min. ^b Repeat this step one more time.	Step 8. Add 200 µl WS Buffe about 10 times to ret conjugate. [®] Transfer a microtube (not inc and store at 0-5°C.	cover the the solution to
	 a) The volume of protein solution should be less than 100 μl. If the protein concentration is lower than 0.5 mg/ml, repeat Steps 1 and 2 until the total protein accumulation becomes 50 - 200 μg. b) If the solution still remains on the membrane after the centrifugation, spin for another 5 min. c) NH₂-Reactive Fluorescein is on the bottom of the tube. Add 10 μl DMSO to the bottom of the tube, and pipette several times to dissolve. NH₂-Reactive Fluorescein can be hydrolyzed by moisture in DMSO. Proceed to Step 4 immediately after the preparation of the NH₂-Reactive Fluorescein solution. 					

Hurster and the second second



If you require assistance, please contact Dojindo customer service. Dojindo Laboratories 2025-5 Tabaru, Mashiki-machi, Kamimashiki-gun,Kumamoto 861-2202, Japan Phone: +81-96-286-1515 Fax: +81-96-286-1525 E-mail: info@dojindo.co.jp Web: www.dojindo.co.jp

Dojindo Molecular Technologies, Inc. 30 W Gude Dr, Suite 260, Rockville, MD 20850 Tel: +1-301-987-2667, Fax: +1-301-987-2687