

# Fluorescent Organosilica Nanoparticles for Cell/Protein Labeling

**Organosilica FITC (100nm Diam.)**

2mg [O0561]

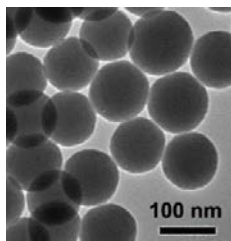
**Organosilica Rhodamine B (100nm Diam.)**

2mg [O0573]



O0561

Fluorescent image

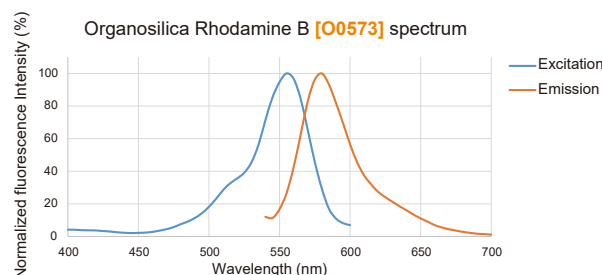
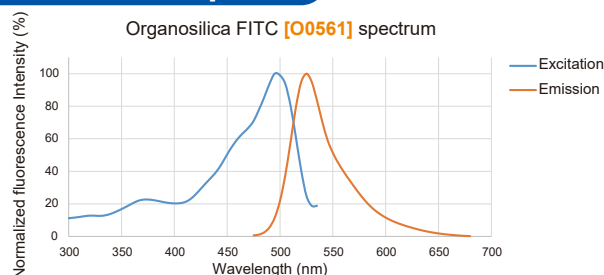


SEM image

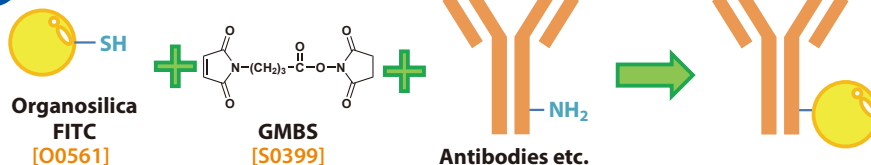
## Advantages

- **Wavelength** : Ex<sub>max</sub> 492 nm, Em<sub>max</sub> 523 nm (O0561)  
Ex<sub>max</sub> 556 nm, Em<sub>max</sub> 579 nm (O0573)
- **Surface Functionalization** : Thiol group (-SH)
- **Superior in fluorescence intensity to the conventional FITC or rhodamine B.**
- **Suitable for detection of biomolecules due to the particle diameter of 100 nm.**

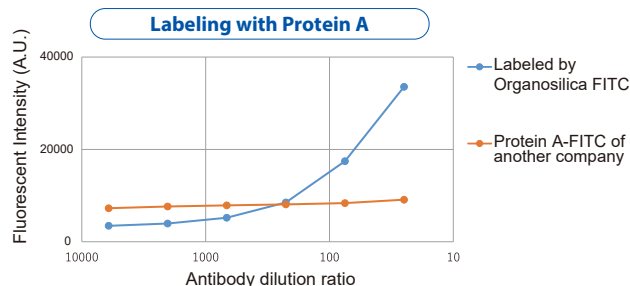
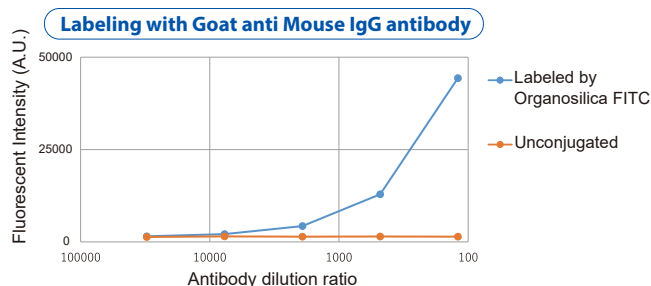
## Fluorescence spectra



## Application



Organosilica FITC [O0561] was labeled to various antibodies etc. by the above method. The fluorescence intensity of them at Ex:485 nm, Em:520 nm was measured.



Organosilica FITC [O0561] could be labeled to various antibodies etc., and they were detected by fluorescence.

These products are developed by Prof. Michihiro Nakamura.

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).

TCI organosilica



## Ordering and Customer Service

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