



Tired of being invisible?

Now there are the fluorescent dyes Oyster® 550 Protein and Oyster® 650 Protein developed especially for labeling antibodies. With a specific linker to provide high fluorescence – even after coupling.

Do you produce antibody conjugates with fluorophores and become frustrated by reduced fluorescence due to quench effects? Or is your antibody even precipitated?

With Oyster® 550 Protein and Oyster® 650 Protein fluorophores, you can significantly improve your results when producing a functional conjugate.

The advantages at a glance:

- High fluorescence – even after coupling
- High photo-stability
- Compatible with all established excitation sources and filters
- Extremely water-soluble
- low unspecific binding
- High coupling efficiency

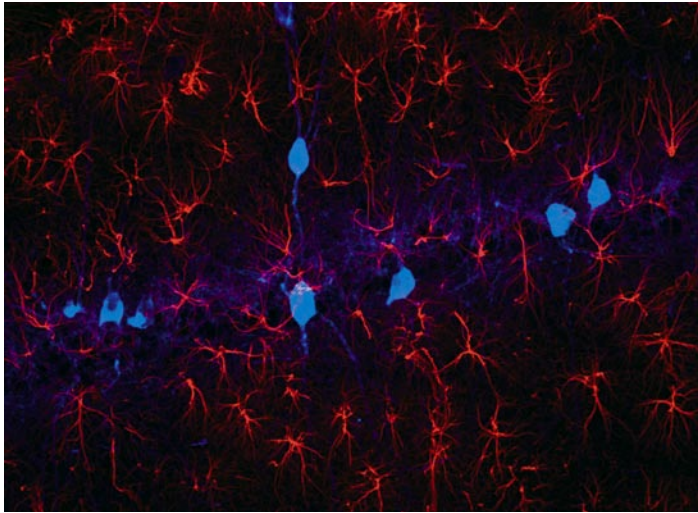
Oyster® fluorophores cover the spectral range between 500 and 656 nm. They are activated as succinimidyl esters (NHS) for coupling to lysine residues – supplied in packages from 0.2 mg for coupling 1.5 mg antibodies, as well as in 1 and 5 mg aliquots.

Overview of Oyster® fluorophores for coupling to proteins

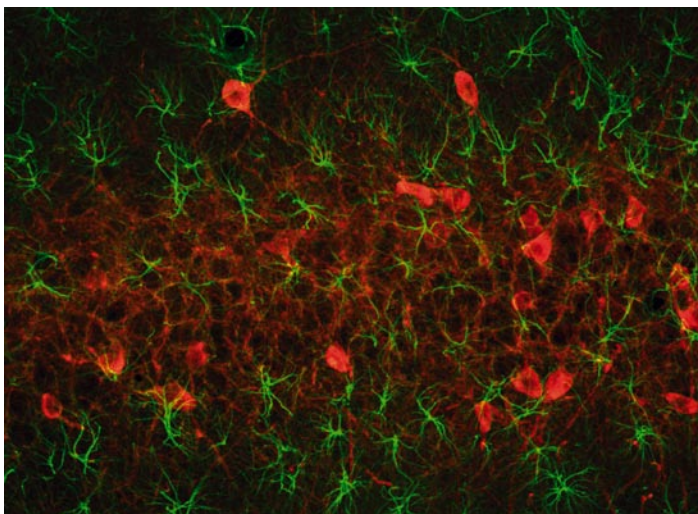
Dye	Reactivity	Excitation (nm)	Emission (nm)	Similar Dyes
Oyster® 500	monofunctional	500	527	FITC, Cy2™, Alexa Fluor® 488,
Oyster® 550 Protein	monofunctional	551	570	TRITC, Cy3™, Alexa Fluor® 555
Oyster® 556	monofunctional	556	570	TRITC, Cy3™, Alexa Fluor® 555
Oyster® 645	bifunctional	645	666	Cy5™, Alexa Fluor® 647
Oyster® 650 Protein	monofunctional	651	670	Cy5™, Alexa Fluor® 647
Oyster® 656	monofunctional	656	670	Cy5™, Alexa Fluor® 647

Secondary antibody labeling

Visualization of parvalbumin (calcium binding protein) in nerve cells (green) and glial fibrillary acidic protein (GFAP) in astrocytes. As a primary antibody, mouse-anti-Parvalbumin antibody (Bellinzona, Switzerland) and rabbit anti-GFAP antibody (Dako, Germany) were used.



*Oyster®-650-goat anti-mouse antibody (custom made, blue),
Cy3™-goat anti-rabbit antibody (Dianova, red)*

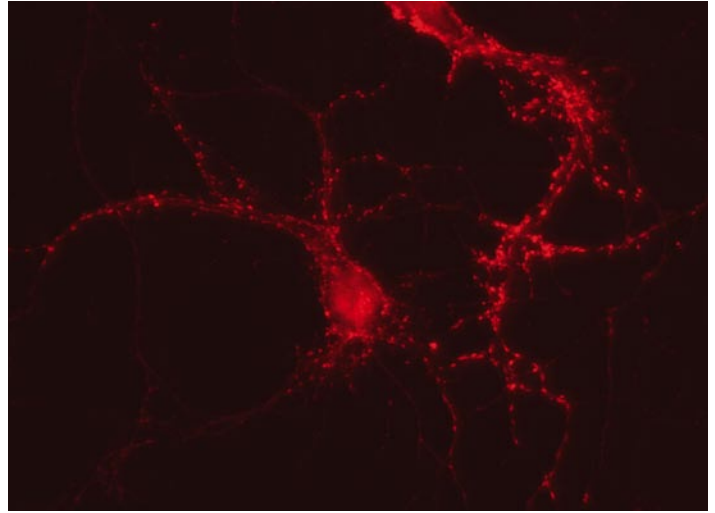


*Oyster® -650-goat anti-mouse antibody (custom made, red),
Cy2™-goat anti-rabbit antibody (Dianova, green)*

*Image was kindly provided by Dr. Wolfgang Härtig, Paul Flechsig Institute for Brain
Research, University of Leipzig, Germany. Cover image: www.photocase.de*

Primary antibody labeling

Immunocytochemistry on hippocampus neuron stained with Oyster® 556 labeled anti-synaptobrevin 2 antibody (Cl.69.1; cat. no 104 211C3; dilution: 1:500, Synaptic Systems GmbH) Synaptobrevin 2 is a neuronal protein located on synaptic vesicles and should be considered a general marker for nerve terminals in the CNS.



This image was kindly provided by Synaptic Systems GmbH, Göttingen, Germany)

No time for your own syntheses?

We'd be glad to carry out any desired conjugates you need. Just ask. We're looking forward to your inquiries.

Would you like to have more information? Feel free to contact us at any time.

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