

Product Datasheet

R-Phycoerythrin NBP1-51816

Unit Size: 1 mg

Store at 4C. Do not freeze.

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NBP1-51816

R-Phycoerythrin

Product Information

Unit Size	1 mg
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at 4C. Do not freeze.
Buffer	sodium phosphate buffer, pH 7.0 with ammonium sulfate.

Product Description

Notes	<p>Spectral Properties: Abs/Em = 565/575 nm</p> <p>Before use, centrifuge the R-PE suspension at 10,000g for 10 min at 4degreesC. Discard the supernatant and resuspend the pellet (R-PE) into the desired buffer. Desalt the sample using either Sephadex G-25 or dialysis. Store R-PE at 4degreesC and keep away from light.</p> <p>Fluorescence quantum yield: Q578 nm= 0.82</p>
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Product Application Details

Applications	Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Immunocytochemistry/ Immunofluorescence
Application Notes	The protein has broad absorption bands with peaks at 565 nm (EM =1.96 X 10 ⁶ M ⁻¹ cm ⁻¹), 498 (EM =1.53 X 10 ⁶ M ⁻¹ cm ⁻¹), and 539 nm (EM =1.62 X 10 ⁶ M ⁻¹ cm ⁻¹); consequently, it can be excited with versatile excitation sources. The broad excitation spectrum provides the advantage for multi-color immunofluorescent staining or cell sorting. For example, a sample labeled with fluorescein and R-PE can be excited with a single light source at 488 nm but detected at 520 nm and 575 nm, respectively. R-PE and the closely related B-PE are the most intensely fluorescent phycobiliproteins. They are significantly brighter and more photostable than conventional organic fluorophores.





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