



R-PE/APC **Labeled Products** **-Convenient Immunofluorescent Materials**

R-Phycoerythrin (R-PE) is a fluorescent protein produced by the light-harvesting phycobiliprotein family and can also be isolated from the red algae and cryptophytes. As one of the main chlorophyll pigments responsible for photosynthesis, its primary absorption peak is at 565 nm with secondary peaks at 496 and 545 nm. The broad excitation spectrum provides the advantage for multi-color immunofluorescent staining or cell sorting.

R-PE is useful in the laboratory as a fluorescence-based indicator for the presence of cyanobacteria and for labeling antibodies, most often for flow cytometry.

Allophycocyanin (APC), is another protein from the light-harvesting phycobiliprotein family, along with phycocyanin, phycoerythrin, and phycoerythrocyanin. It is an accessory pigment to chlorophyll. APC is

isolated from red algae or blue-green algae that exhibits far-red fluorescence with high quantum yields, each producing slightly different forms of the molecule.

In practical applications, the sensitivity of APC conjugates is usually 5 to 10 times greater than that of the corresponding fluorescein conjugate.

Creative BioMart offers a variety of R-PE or APC conjugated recombinant proteins to help with your research. You can download featured conjugated products below. Please contact us for more details. We offer custom service to produce conjugated recombinant proteins according to your request.



Featured Products Catalog Download PDF

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