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Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein

RFP, Red Fluorescent Protein, R-PE, R-Phycoerythrin
Catalog # PBV10535r

Specification

Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein - Product info

Calculated MW	**240 kDa KDa**

Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein - Additional Info

Gene Symbol	**R-PE**

Other Names
RFP, Red Fluorescent Protein, R-PE, R-Phycoerythrin

Gene Source	**Red algae**
Source	**Febico's proprietary red algae**
Assay&Purity	**Absorbance; A566/A280 ≥ 5.5**
Assay2&Purity2	**Absorbance; A566/A498 ≤1.5**
Recombinant	**No**

Target/Specificity
R-PE

Application Notes
Before use, centrifuge the R-PE suspension at 10,000g for 10 min at 4C. Discard the supernatant and resuspend the pellet (R-PE) into the desired buffer. R-PE is stored in a salt solution and it must be extensively dialyzed (Can use BioVision's Dialyzer tubes) or desalted in columns prior to use, to remove any remaining ammonium sulphate.

Format
Suspension

Storage
2-8°C ; R-PE is supplied in 100 mM Potassium Phosphate buffer, pH 7.0 with 60% Saturated (NH4)2SO4, 1 mM EDTA and 1 mM Sodium Azide.

Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein - Images

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Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein - Background

R-phycoerythrin (R-PE) is an intensely bright phycobiliprotein isolated from red algae that exhibits extremely bright red-orange fluorescence with high quantum yields. The broad excitation spectrum provides the advantage for multi-color immunofluorescent staining or cell sorting. R-PE consists of a, b and g subunits and is present as (ab) 6g. R-PE and the closely related BPE are the most intensely fluorescent phycobiliproteins having orange fluorescence. R-PE is a large molecule used for fluorescence-based detection, primarily in flow cytometry, microarray assays, ELISAs, and other applications that require high sensitivity but not photostability. In practical applications, the sensitivity of R-PE conjugates is usually 5 to 10 times greater than those of the corresponding fluorescein conjugates.