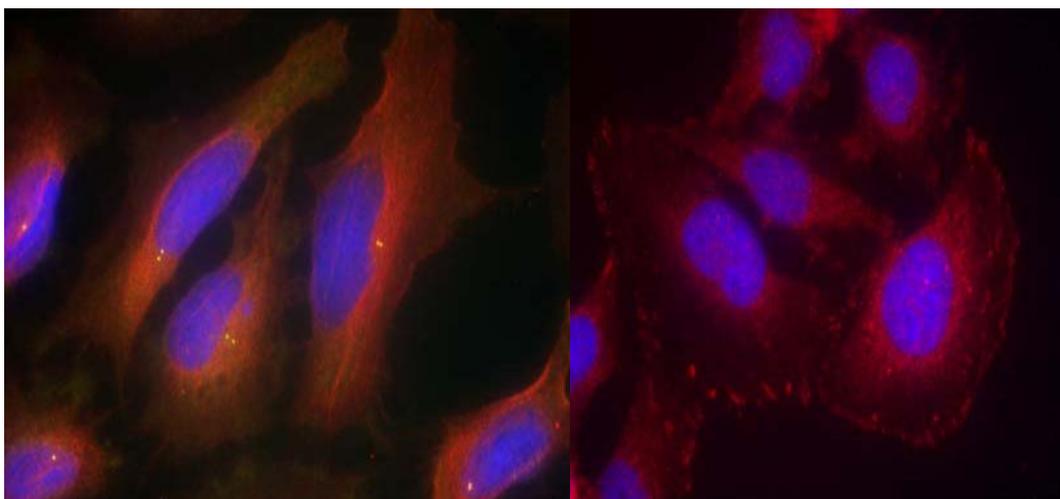




RFP-rProtein A

E1RA1

Cat. Number:	E1RA1-005, E1RA1-010, E1RA1-020, E1RA1-050, E1RA1-100
Amount:	50µg/50µl, 100µg/100µl, 200µg/200µl, 500µg/500µl, 1000µg/1000µl
Description:	The unique, high quality recombinant red fluorescence Protein (RFP)-rProtein A are produced in <i>E. coli</i> , and purified using multiple chromatographic steps (not affinity purified with human IgG). RFP-rProtein A bind to most mammalian immunoglobulins in their Fc binding domains and therefore are ideal for immunofluorescence staining. The genetically engineered protein was expressed and purified from transformed <i>E. coli</i> containing only the IgG binding regions and have 6X His-tag on their N-terminus. Other domains such as cell wall binding region, albumin binding region and other non-specific binding regions have been eliminated from all these proteins to ensure the maximum specific IgG binding and maximal fluorescence.
Form:	Liquid. The product is 1 mg/ml in 10 mM Phosphate buffered saline, pH 7.4 containing, 10% glycerol and 0.1% sodium azide as preservative.
Source	Recombinant expressed in <i>E. coli</i>
Purity	>98% by SDS-PAGE and HPLC
Endotoxin:	< 0.05 EU/mg
IgG Binding:	>95%
Bioburden:	No organisms detected
Specificity:	Under optimal conditions, 1 mg RFP-rProtein A will bind approximately 5 mg IgG. Optimal binding of RFP-rProtein A to antibodies occurs at pH 5.0 to 8.0 and can be eluted over a pH range of 2.5 to 3.0.
Applications:	The protein is suitable as control reagent for RFP expression studies or as labeling reagent. Applications include: Flow cytometers, fluorescence microscopy, and microinjection, antibody purification, etc. at 1:100 dilution. Maximum absorption wavelength at 557 nm and emission wavelength at 585 nm.
Storage/Stability:	Store at -20°C. -80°C for long-term storage. Avoid exposure to light. Avoid repeated freezing and thawing.



Immunofluorescence staining of methanol-fixed HeLa cells using Synaptotagmin (Ab-309) Antibody (E021292) (Left) and PLC-γ1 (phospho-Tyr771) Antibody (E011523) (Right) consequently detected with RFP-rProtein A (Red).

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