Protein A (PE)

Cat. No. GTX30957

Applications	ICC/IF, FCM
Species	Staphylococcus aureus

Package
1 ml

PRODUCT

Summary	Protein A (MW 42 kDa) is capable of binding to the Fc portion of immunoglobulins, especially IgGs, from a large number of species. One protein A molecule has been shown to bind at least 2 molecules of IgG simultaneously. The IgG binding domain of Protein A consists of three anti-parallel α-helicies, the third of which is disrupted when the protein is complexed with the Fc region of the immunoglobulins. Protein A will bind the Fc portion of human IgG subclasses, IgM, IgA and IgE; and mouse IgG1 (weakly), IgG2a, and IgG2b. Protein A also binds IgGs from other species, including monkey, rabbit, pig, guinea pig, dog, and cat. Phycoethyrin: Phycoethyrin (R-PE) is a 240 kDa protein from the light-harvesting phycobilliprotein, phycoerythrin is composed of a protein part, organised in a hexameric structure of alpha and beta chains, covalently binding chromophores called phycobilins. In the phycoerythrin family, the phycobilins are: phycoerythrobilin, the typical phycoerythrin acceptor chromophore, and sometimes phycourobilin (marine organisms). Phycoerythrins are the phycobilliprotein which bind the highest number of phycobilins (up to six per alpha-beta subunit dimer). R-PE purified from Poryhyra tenera; A565/A280 >5.0; A 1% 565 nm=82; Amax = 490, 545 and 566 nm; E max = 580 nm. Fluorophore/Protein: A566nm/A280nm=4

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
ICC/IF	Assay dependent
FCM	Assay dependent

Not tested in other applications.

Properties

Form	Liquid
Buffer	PBS, 10mg/ml BSA
Preservative	0.05% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C.
Region/Sequence	Native Protein
Expression System	Native Protein
Conjugation	Phycoerythrin (PE) Wavelength

For full product information, images and publications, please visit our website.

Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.