

Protein Datasheet

OVERVIEW AND PROPERTIES

Product Name	PtX™ Recombinant Protein A
Synonyms	N/A
Catalogue Number	CBT_P0001
Expression Host	<i>Nicotiana benthamiana</i> plants
Original Gene species	Staphylococcus aureus (bacteria)
Molecular Weight (kDa)	42 kDa
Tag	6xhis tag (C-terminal)
Reporter Protein	None
Description	This product is a recombinant Protein A antigen. It was produced in <i>Nicotiana benthamiana</i> plants via <i>Agrobacterium tumefaciens</i> -mediated infiltration.
Protein Name	Protein A
Verified Species	Human IgG1 (++++)
Immunoglobulin Affinity	Rabbit IgG (+++) Mouse IgG1 (+) Mouse IgG2a (++++) Alpaca IgG2b (++++)
Verified Applications	ELISA
Recommended conc range	ELISA (1: 10 000-1: 30 000)
Concentration	1.0 mg/ml
Form	Liquid
Colour	Clear to light yellow
Preparation	Ready to use
Storage	Short term (up to one week): 2 – 8 °C Long term: Aliquot and store at – 20 °C Store immediately. Aliquot and avoid multiple freeze thaw cycles.
Storage Buffer	0.1 M Phosphate Buffered Saline, pH 7.4 Preservative: None
Purification Notes	This product was purified using Immobilised metal affinity chromatography (IMAC) chromatography.
Purity	≥ 80 % as determined by SDS-PAGE 82.63% as determined by Mass Spectrometry
General Notes	If for any reason the product does not perform as specified, please contact our scientific support team for assistance by emailing techsupport@capebiologix.com . For Research Use only, unless otherwise indicated.

PtX™ Recombinant Protein A ELISA Dose Response

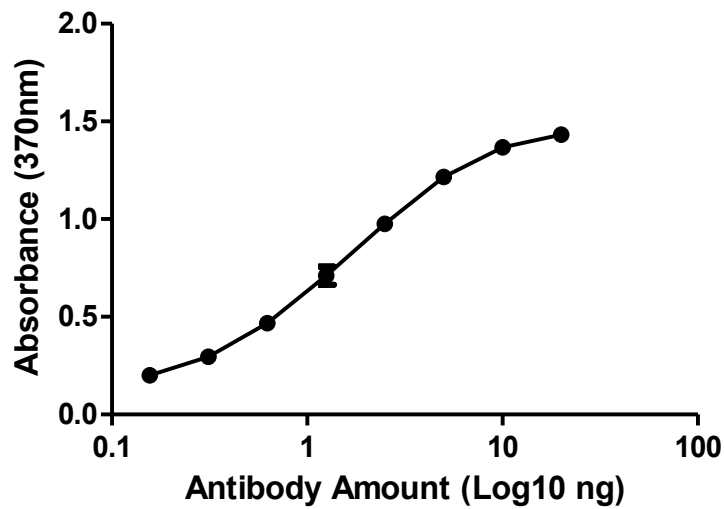


Figure 1. ELISA Dose Response Curve showing increasing absorbance at 370 nm with increasing amounts of PtX™ Recombinant Protein A antigen used to bind 0.15 ng/μl Human IgG antigen and detected with an Anti-Protein A HRP conjugated antibody.

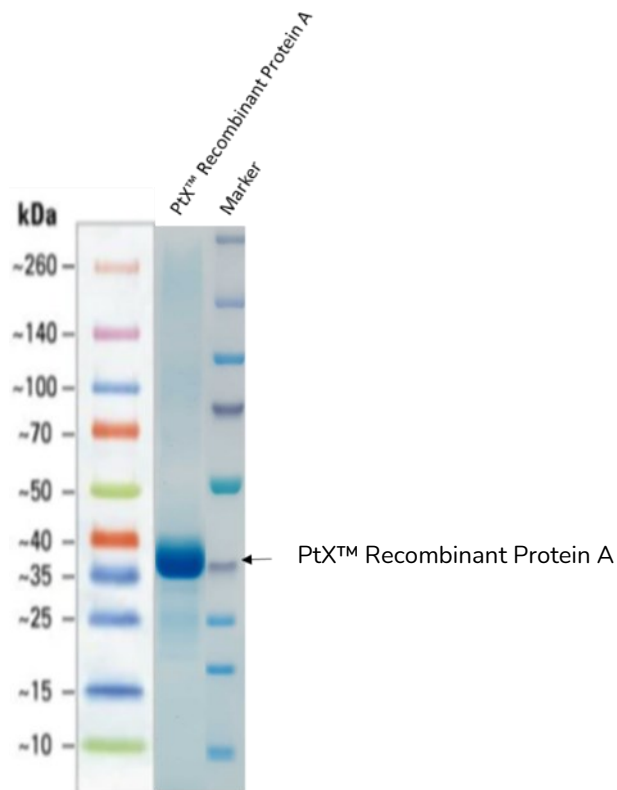


Figure 2. PtX™ Recombinant Protein A analysed by SDS-PAGE and Coomassie stain to show purity of antigen. Arrow indicating protein band at 42KDa.