

Antibody Datasheet

OVERVIEW AND PROPERTIES

Product Name	PtX™ Human Anti-Tumour Necrosis Factor Alpha Recombinant Antibody
Catalogue Number	CBT_A0013
Expression Host	<i>Nicotiana benthamiana</i> plants
Clonality	Monoclonal, recombinant
Species and Isotype	Human IgG1
Tag	None
Reporter Protein	None
Description	This product is a full-length Human IgG1 recombinant antibody specific to Tumour necrosis factor alpha (TNF alpha) protein. It was produced in <i>Nicotiana benthamiana</i> plants via <i>Agrobacterium tumefaciens</i> -mediated infiltration.
Target Name	Tumour necrosis factor alpha (TNF alpha)
Verified Applications	Western blot, ELISA
Dilution Range	Western blot (1: 2 000 – 1: 20 000) ELISA (1: 1 000 – 1: 10 000)
Tested Species Reactivity	Human
Concentration	1.0 mg/ml
Form	Liquid
Colour	Clear
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 Protein A- affinity chromatography.
Purity	≥ 95 % as determined by SDS-PAGE 98.28 % 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.

Human Anti-TNF Alpha ELISA Dose Response

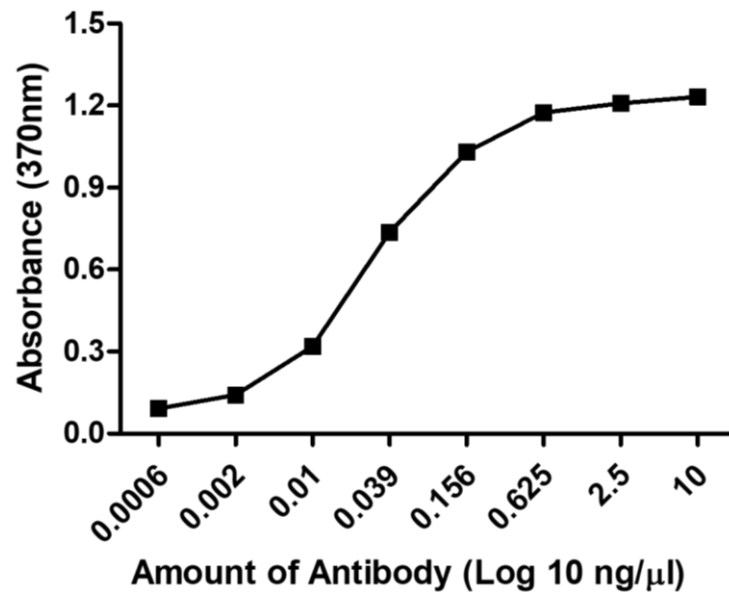


Figure 1. Functionality Testing of PtX™ Human Anti-TNF-Alpha ELISA Dose Response curve showing increasing absorbance with increasing amounts 96 well plate coated with 0.4 ng/μl of TNF alpha antigen.

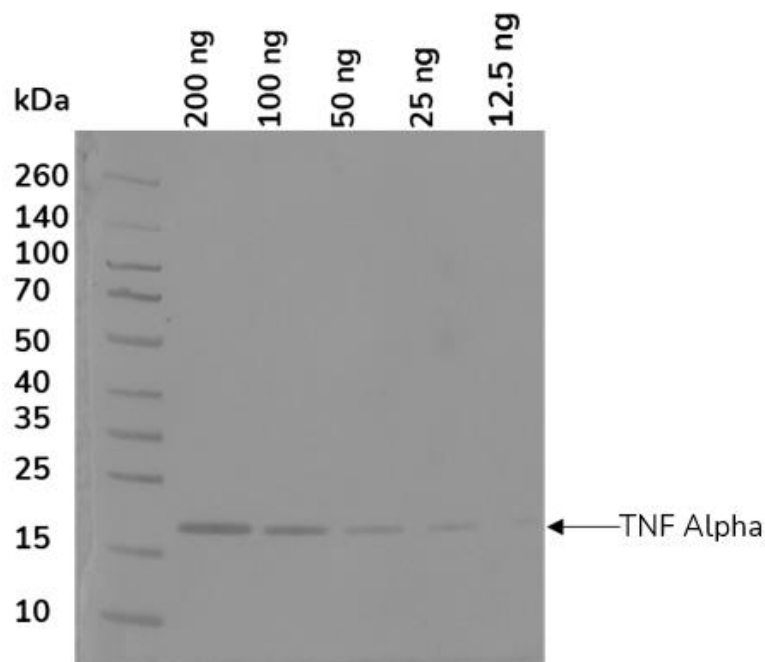


Figure 2. Western blot analysis of PtX™ Human Anti-TNF-Alpha. Lanes 2 – 6: Varying amounts of TNF- Alpha were run on an SDS-PAGE gel. Separated bands were transferred to the membrane and PtX™ Human Anti-TNF-α (1: 5 000) was used to detect the antigen. The single band of TNF-Alpha cytokine was visualized following the addition of anti-human secondary antibody with HRP and substrate. Our antibody was able to detect antigen amounts upwards of 25 ng (Lane 5).