

Product datasheet for **AP21404AF-N**

Ficin Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, ID, IF, IP, R, WB
Recommended Dilution:	This product is intended for use in precipitating and non-precipitating antibody-binding assays (such as e.g., ELISA and Western blotting and Immunofluorescence or Histochemical techniques), to prepare an insoluble immuno-affinity adsorbent, for labelling with a marker of choice. <u>Recommended Dilutions:</u> Non-precipitating antibody-binding techniques: At least 1/1,000.
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Ficin isolated and purified from fig tree latex. Freund's complete adjuvant is used in the first step of the immunization procedure.
Specificity:	This polyclonal antibody is an immunologic reagents to Ficin from fig tree latex. The reagents were evaluated for potency, purity and specificity using most or all of the following techniques: Immunoelectrophoresis, Cross-Immunoelectrophoresis, single Radial Immunodiffusion (Ouchterlony), block titration, ELISA, Immunoblotting and Enzyme Inhibition. Cross-reactivities against enzymes of other sources may occur but have not been determined.
Formulation:	PBS, pH 7.2 without preservatives and foreign proteins State: Azide Free State: Lyophilized hyperimmune IgG fraction
Reconstitution Method:	Restore by adding 1.0 ml of sterile distilled water
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation and Ion Exchange Chromatography
Conjugation:	Unconjugated



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Storage:	Store the antibody lyophilized at 2-8°C and reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer. If a slight precipitation occurs upon storage, this should be removed by centrifugation.
Stability:	Shelf life: one year from despatch.
Background:	<p>Ficin is classified as a Thiol Protease. It contains a single reactive Cysteine at its active site. The amino acid homology of the active site is similar to that of Papain. Ficin will cleave proteins at the carboxyl side of Gly, Ser, Thr, Met, Lys, Arg, Tyr, Ala, Asn, and Val.</p> <p>The reported Km for the chromogenic substrate pGlu-Phe-Leu-p-nitroanilide is 0.43 mM. (3)</p> <p>Ficin is inhibited by Iodoacetamide, Iodoacetic Acid, N-Ethylmaleimide, Mercuric Chloride, DFP (diisopropyl fluorophosphate), TLCK (N-alpha-p-Tosyl-lysine Chloromethyl ketone), and TPCK (N-Tosyl-L-Phenylalanine Chloromethyl Ketone). (1,2)</p> <p>Enzyme Commission (EC) Number: 3.4.22.3</p> <p>Molecular Weight: 23.8 kDa (1).</p> <p>Extinction Coefficient: E1% = 21.0 (280 nm) (2)</p>