

**AP21390PU-N****Polyclonal Antibody to Subtilisin - Aff - Purified****Alternate names:**

Subtilisin E, apr, aprA, aprE, sprE

**Quantity:**

1 mg

**Concentration:**

2.0 mg/ml

**Background:**

Subtilisin (serine endopeptidase) is a non-specific protease (a protein-digesting enzyme) initially obtained from *Bacillus subtilis*. Subtilisins belong to subtilases, a group of serine proteases that initiate the nucleophilic attack on the peptide (amide) bond through a serine residue at the active site. They are physically and chemically well-characterized enzymes. Subtilisins typically have molecular weights of about 20,000 to 45,000 dalton. They can be obtained from soil bacteria, for example, *Bacillus amyloliquefaciens*. Subtilisins are secreted in large amounts from many *Bacillus species*. Subtilisin is an extracellular alkaline serine protease, it catalyzes the hydrolysis of proteins and peptide amides.

**Uniprot ID:**[P04189](#)**NCBI:**[NP\\_388911](#)**GenelD:**[939313](#)**Host / Isotype:**

Rabbit / IgG

**Immunogen:**

Subtilisin isolated and purified from *Bacillus subtilis*. Freund's complete adjuvant is used in the first step of the immunization procedure.

**Format:****State:** Lyophilized purified IgG fraction**Purification:** Solid Phase Affinity Chromatography**Buffer System:** PBS, pH 7.2 stabilized with Dextran without preservatives and foreign proteins**Reconstitution:** Restore by adding 0.5 ml of sterile distilled water**Applications:**

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.

**Recommended Dilutions:**

Non-precipitating antibody-binding techniques: 1/100-1/2,000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

Subtilisin from *Bacillus subtilis*.

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.

**Species:** *Bacillus subtilis*.

Other species not tested.

**Storage:**

Store lyophilized at 2-8°C for 6 months or at -20°C long term.

After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.