

AP21390BT-N**Polyclonal Antibody to Subtilisin - Biotin****Alternate names:**

Subtilisin E, apr, aprA, aprE, sprE

Quantity:

1 ml

Concentration:

10.0 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](#)**GeneID:**[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 hyperimmune IgG fraction**Purification:** Ammonium Sulphate Precipitation and Ion Exchange Chromatography**Buffer System:** PBS, pH 7.2 without preservatives and foreign proteins**Label:** Biotin*Molar Ratio:* Biotin/IgG ~ 6.3**Reconstitution:** Restore by adding 1 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).

Recommended Dilutions:

Non-precipitating antibody-binding techniques: 1/1,000-1/6,000.

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 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.

Shelf life: one year from despatch.