

Product datasheet for **AP33079SU-N**

Salivary alpha amylase (AMY1A) Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ID, IP
Recommended Dilution:	Immunoprecipitation. Can be used in precipitating techniques as immunoelectrophoresis and single and double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of salivary amylase or to determine its concentration. The presence of non-precipitating antibodies has not been assayed. This does not exclude the use of the antiserum in non-precipitating antibody binding techniques if proper controls are included. <i>Directions for use:</i> In immunoelectrophoresis in agarose-plates use 2 µl human saliva or equivalent against 120 µl antiserum. In double radial immunodiffusion use a rosette arrangement with 10 µl antiserum in 3 mm diameter center well and 2 µl plasma samples (neat and serially diluted) in 2 mm diameter peripheral wells. <i>Precipitin Titre:</i> not less than 1/32 when tested against normal human saliva in agar-block immunodiffusion titration.
Reactivity:	Human
Host:	Sheep
Clonality:	Polyclonal
Immunogen:	Isolated from pooled saliva and purified to homogeneity for use in the antiserum production. Freund's complete adjuvant is used in the first step of the immunization procedure.
Specificity:	The reactivity of the antiserum is restricted to salivary amylase. In immunoelectrophoresis and radial immunodiffusion, using various antiserum concentrations against human saliva a single precipitin line is obtained and shows a reaction of full identity with the purified immunogen. No reaction is obtained with human plasma. Cross-reactivity: The antiserum does not cross-react with any other human plasma proteins as tested in gel-diffusion techniques. Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail.
Formulation:	State: Serum State: Delipidated, heat inactivated, lyophilized, stable whole serum Preservative: None



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Reconstitution Method:	Restore by adding 1.0 ml of sterile distilled water
Concentration:	Total protein and IgG concentration are comparable to those of pooled normal sheep serum. No foreign proteins added.
Conjugation:	Unconjugated
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	amylase, alpha 1A (salivary)
Database Link:	Entrez Gene 276 Human P04745
Background:	Human salivary amylase is an enzyme hydrolyzing the α -1,4-glucan links in polysaccharides. Its molecular weight is 55,000.
Synonyms:	Salivary alpha-amylase, AMY1A