

Product datasheet for **BP244**

Salivary alpha amylase (AMY1A) Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC
Recommended Dilution:	Immunohistochemistry on Frozen Sections: 1/20-1/200. ELISA: 1/500-1/3000. In a simple Indirect ELISA with 400 ng of Human salivary amylase bound to the plate, the 50% OD was observed at an antibody dilution of 1/5K. Under the same conditions, the end point was observed at 1/500K.
Reactivity:	Fungi, Human, Porcine
Host:	Sheep
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Highly pure Human Salivary Amylase.
Specificity:	Human salivary Amylase: 100% Porcine pancreatic Amylase 50% Amylase from <i>Aspergillus oryzae</i> 10%
Formulation:	PBS pH 7.2 containing 0.09% Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. 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



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Background:

Amylases are secreted proteins that hydrolyze 1,4 alpha glucoside bonds in oligosaccharides and polysaccharides. They catalyze the first step in digestion of dietary starch and glycogen. Alternative splicing results in multiple transcript variants encoding the same protein.

Salivary Amylase is a digestive enzyme secreted by salivary glands, it consists of a single polypeptide chain with a molecular weight of 56kDa (family B) or 62kDa (family A), the difference in molecular weight being due to the presence or absence of a carbohydrate moiety.

The total serum concentration of amylase is about 120g/L of which about 50% is salivary amylase.

Although salivary amylase and pancreatic amylase share 95% amino acid sequence homology, they differ in molecular size, isoelectricpoint and antigenic properties.

Synonyms:

Salivary alpha-amylase, AMY1A