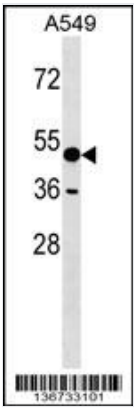
AMY1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AMY1A, Polyclonal Antibody
Full Product Name	AMY1A Antibody (C-term)
Product Gene Name	anti-AMY1A antibody
Product Synonym Names	Alpha-amylase 1,4-alpha-D-glucan glucanohydrolase 1; Salivary alpha-amylase; AMY1A; AMY1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.45 (lot specific)
Specificity	This AMY1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 359-388 amino acids from the C-terminal region of human AMY1A.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	AMY1A peptide (MBS9222676) is used for blocking the activity of AMY1A antibody (MBS9213469)
Molecular Weight	57768
Immunogen Sequence Positions	359-388
OMIM	104700
3D Structure	ModBase 3D Structure for P04745
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-AMY1A antibody	Cancer; Cell Biology; Metabolism; Signal transduction
Applications Tested/Suitable for anti-AMY1A antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-AMY1A antibody	WB~~1:1000
Related Product Information for anti-AMY1A antibody	Amylases are secreted proteins that hydrolyze 1,4-alpha-glucoside bonds in oligosaccharides and polysaccharides, and thus catalyze the first step in digestion of dietary starch and glycogen. The human genome has a cluster of several amylase genes that are expressed at high levels in either salivary gland or pancreas. This gene encodes an amylase isoenzyme produced by the salivary gland. Alternative splicing results in multiple transcript variants encoding the same protein.

Product References and Citations for anti-AMY1A antibody	Ragunath, C., et al. J. Mol. Biol. 384(5):1232-1248(2008) Takahashi, T., et al. Neuro Endocrinol. Lett. 28(5):662-665(2007) Perry, G.H., et al. Nat. Genet. 39(10):1256-1260(2007) Chaudhuri, B., et al. BMC Microbiol. 7, 60 (2007) : Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Other Notes	Small volumes of anti-AMY1A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AMY1A purchase	MBS9213469 is an antibody targeting AMY1A. Also known as AMY1A Antibody (C-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-AMY1A antibody
AMY1A Antibody (C-term) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the AMY1A antibody detected the AMY1A protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AMY1A. It may not necessarily be applicable to this product.

NCBI GI #	56549662
NCBI GeneID	277
NCBI Accession #	NP_001008219.1
NCBI Related Accession #	NP_001008220.1; NP_001008222.1; NP_004029.2
UniProt Primary Accession #	P04745
UniProt Secondary Accession #	Q13763; Q5T083; A6NJS5; A8K8H6
UniProt Related Accession #	P04745
GenBank Nucleotide #	NM_001008218.1
NCBI Official Full Name	alpha-amylase 1
NCBI Official Synonym Full Names	amylase, alpha 1B (salivary)
NCBI Official Symbol	AMY1B
NCBI Official Synonym Symbols	AMY1
UniProt Protein Name	Alpha-amylase 1
UniProt Synonym Protein Names	1,4-alpha-D-glucan glucanohydrolase 1; Salivary alpha-amylase
UniProt Gene Name	AMY1A
UniProt Synonym Gene Names	AMY1
UniProt Entry Name	AMY1_HUMAN

NCBI Protein Information	alpha-amylase 1
NCBI Summary for AMY1A	Amylases are secreted proteins that hydrolyze 1,4-alpha-glucoside bonds in oligosaccharides and polysaccharides, and thus catalyze the first step in digestion of dietary starch and glycogen. The human genome has a cluster of several amylase genes that are expressed at high levels in either salivary gland or pancreas. This gene encodes an amylase isoenzyme produced by the salivary gland. [provided by RefSeq, Jul 2008]
UniProt Comments for AMY1A	AMY1: Monomer. Belongs to the glycosyl hydrolase 13 family. Protein type: Hydrolase; Secreted; Carbohydrate Metabolism - starch and sucrose; Secreted, signal peptide; EC 3.2.1.1 Chromosomal Location of Human Ortholog: 1p21 Cellular Component: extracellular space Molecular Function: alpha-amylase activity; protein binding; metal ion binding Biological Process: carbohydrate metabolic process; digestion
Research Articles on AMY1A	**1.** results show a strong association between acute physical stressor-induced elevations in sAA levels and patients with MDD.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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