AMY1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AMY1A, Polyclonal Antibody
Full Product Name	AMY1A, CT (AMY1A, AMY1, Alpha-amylase 1, 1,4-alpha-D-glucan glucanohydrolase 1, Salivary alpha-amylase) (MaxLight 750)
Product Gene Name	anti-AMY1A antibody
Product Synonym Names	AMY1A; AMY1; Alpha-amylase 1; 1,4-alpha-D-glucan glucanohydrolase 1; Salivary alpha-amylase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	57,768 Da
OMIM	104700
3D Structure	ModBase 3D Structure for P04745
Immunogen	AMY1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 358-388 amino acids from the C-terminal region of human AMY1A.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-AMY1A antibody	Antibodies; Enzymes; Glycosidase
Applications Tested/Suitable for anti-AMY1A antibody	Western Blot (WB), FLISA
Application Notes for anti-AMY1A antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
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	MBS6273387 is an antibody targeting AMY1A. Also known as AMY1A, CT (AMY1A, AMY1, Alpha-amylase 1, 1,4-alpha-D-glucan glucanohydrolase 1, Salivary alpha-amylase) (MaxLight 750). Reactive in Human. Host: Rabbit.

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
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; 1,4-alpha-D-glucan glucanohydrolase 1; amylase, salivary, alpha-1B; glycogenase; salivary alpha-amylase; salivary amylase alpha 1B
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]
Research Articles on AMY1A	**1.** results show a strong association between acute physical stressor-induced elevations in sAA levels and patients with MDD.
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