

α-Amylase Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M R	Endogenous	58	Rabbit	#P19961	280

Product Usage Information

Application
Western Blotting

Dilution
1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

α-Amylase Antibody detects endogenous levels of total α-amylase protein.

Species predicted to react based on 100% sequence homology

Human

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala498 of human carcinoid α-amylase. Antibodies are purified by protein A and peptide affinity chromatography.

Background

α-amylase catalyzes the cleavage of 1, 4-α-D-glucosidic bonds in oligosaccharides and polysaccharides (1). The enzyme is normally produced and secreted in salivary glands (salivary α-amylase or AMY1) and pancreas (pancreatic α-amylase or AMY2A) (1). Studies reported the release of an ectopically expressed α-amylase in certain tumors (1). Furthermore, a new type of α-amylase (carcinoid α-amylase or AMY2B) was identified in a lung carcinoid tissue (2-4). The ectopic expression of α-amylase in a neuroendocrine tumor was also reported (5).

Background References

1. Tomita, N. et al. (1988) *Cancer Res* 48, 3292-6.
2. Tomita, N. et al. (1989) *Gene* 76, 11-8.
3. Groot, P.C. et al. (1989) *Gene* 85, 567-8.
4. Yokouchi, H. et al. (1990) *Gene* 90, 281-6.
5. Daa, T. et al. (2002) *J Exp Clin Cancer Res* 21, 131-6.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

M: Mouse **R:** Rat

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