

#4017 Store at -20C

α -Amylase Antibody

**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	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 / PurificationPolyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence 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

- Tomita, N. et al. (1988) *Cancer Res* 48, 3292-6.
- Tomita, N. et al. (1989) *Gene* 76, 11-8.
- Groot, P.C. et al. (1989) *Gene* 85, 567-8.
- Yokouchi, H. et al. (1990) *Gene* 90, 281-6.
- 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**WB:** Western Blotting**Cross-Reactivity Key**

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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