

# α-Amylase Antibody

100 µl  
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

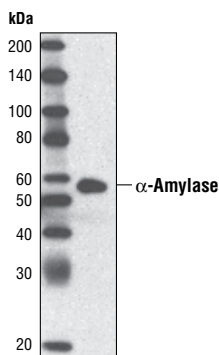
Entrez-Gene ID #280  
Swiss-Prot Acc. #P19961

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	R, (H, M)	58 kDa	Rabbit**

**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 pancreata (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).

**Specificity/Sensitivity:** Amylase Antibody detects endogenous levels of total α-amylase protein.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide derived from the sequence of human carcinoid α-amylase. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from AR42J cells using α-Amylase Antibody.

**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.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**  
Western blotting 1:1000

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**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.

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

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected  
Species enclosed in parentheses are predicted to react based on 100% homology.