

α-Amylase (D55H10) XP™ Rabbit mAb

✓ 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.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP, IHC-P Endogenous	H, R, (M)	58 kDa	Rabbit IgG**

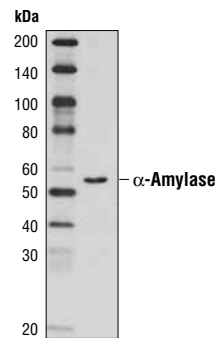
Background: α-amylase catalyzes the cleavage of 1, 4-α-D-glucosidic bonds in oligosaccharides and polysaccharides (1). The enzyme is normally produced and secreted in salivary glands (salivary α-amylase or AMY1) and pancreas (pancreatic α-amylase or AMY2A) (1). Studies reported the release of an ectopically 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).

Specificity/Sensitivity: α-Amylase (D55H10) XP™ Rabbit mAb detects endogenous levels of total α-amylase protein.

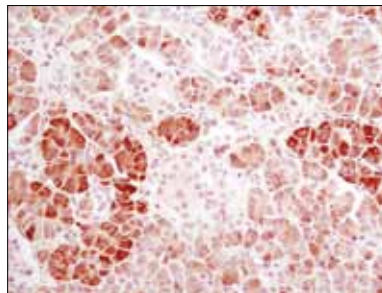
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human α-amylase.

Background References:

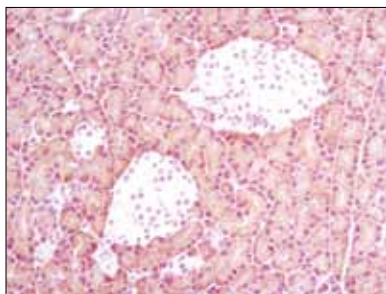
- (1) Tomita, N. et al. (1988) *Cancer Res* 48, 3292-6.
- (2) Tomita, N. et al. (1989) *Gene* 76, 11-8.
- (3) Groot, P.C. et al. (1989) *Gene* 85, 567-8.
- (4) Yokouchi, H. et al. (1990) *Gene* 90, 281-6.
- (5) Daa, T. et al. (2002) *J Exp Clin Cancer Res* 21, 131-6.



Western blot analysis of extracts from AR42J cells using α-Amylase (D55H10) XP™ Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human pancreas using α-Amylase (D55H10) XP™ Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded rat pancreas using α-Amylase (D55H10) XP™ Rabbit mAb.

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

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. 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
Immunoprecipitation	1:50
Immunohistochemistry (Paraffin)	1:3200†
Unmasking buffer:	Citrate
Antibody diluent:	SignalStain® Antibody Diluent #8112
Detection reagent:	SignalStain® Boost (HRP, Rabbit) #8114

† Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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.