**α-Amylase Antibody**

For Research Use Only. Not For Use In Diagnostic Procedures.

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<td>W Endogenous</td>
<td>M, R, (H)</td>
<td>58 kDa</td>
<td>Rabbit**</td>
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**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.

**Background References:**

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

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

**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.**

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

**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
Mm—hamster
Mk—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.