SANTA CRUZ BIOTECHNOLOGY, INC.

Amylase (h3): 293T Lysate: sc-170021

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The three types of Amylase found in human and mouse tissues are salivary, pancreatic and ovarian tumor. In humans there are two haplotypes consisting of very different numbers of salivary Amylase proteins. The short haplotype contains two pancreatic proteins, AMY2A and AMY2B and one salivary Amylase protein, AMY1C. The long haplotype consists of two salivary Amylase proteins, AMY1A and AMY1B. In mice, there are two apparently identical copies of AMY2A which specify pancreatic Amylase. The single copy of AMY1A is expressed in a tissue specific fashion in the salivary gland and the liver.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AMY1A/AMY2A/AMY2B (human) mapping to 1p21.1.

PRODUCT

Amylase (h3): 293T Lysate represents a lysate of human Amylase transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

Amylase (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive Amylase antibodies. Recommended use: 10-20 µl per lane.

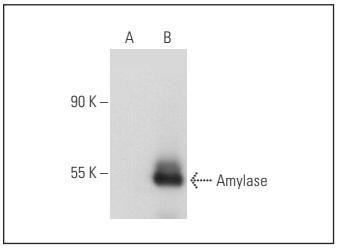
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Amylase (G-10): sc-46657 is recommended as a positive control antibody for Western Blot analysis of enhanced human Amylase expression in Amylase transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Amylase (G-10): sc-46657. Western blot analysis of Amylase expression in non-transfected: sc-117752 (**A**) and human Amylase transfected: sc-170021 (**B**) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.