

PAPP-A (m): 293 Lysate: sc-179290

BACKGROUND

Pregnancy-associated plasma protein-A (Pappalysin-1 or PAPP-A), also known as Insulin-like growth factor-dependent IGF-binding protein 4 (IGFBP4) protease, is a member of the peptidase M43B family of proteins. PAPP-A, a metalloproteinase cleaves Insulin-like growth factor binding proteins IGFBP4 and IGFBP5, releasing bound IGF. PAPP-A is primarily expressed in septa and anchoring villi in placenta and is also expressed in pregnancy serum. Levels of PAPP-A increase throughout pregnancy. Lower levels of expression can be detected in kidney, prostate, breast, ovary and endometrial tissues. PAPP-A is a secreted protein that can form homodimers; in pregnancy serum PAPP-A may also form a heterotetramer with PRG2.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: Pappa (mouse) mapping to 4 C1.

PRODUCT

PAPP-A (m): 293 Lysate represents a lysate of mouse PAPP-A transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

PAPP-A (m): 293 Lysate is suitable as a Western Blotting positive control for mouse reactive PAPP-A antibodies. Recommended use: 10-20 µl per lane.

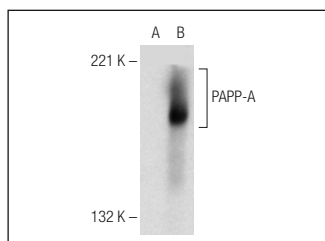
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

PAPP-A (B-7): sc-365226 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse PAPP-A expression in PAPP-A transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

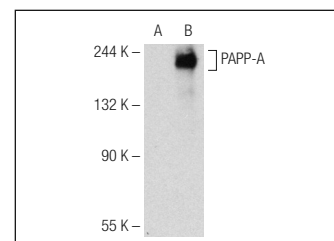
RECOMMENDED SUPPORT REAGENTS

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



PAPP-A (B-7): sc-365226. Western blot analysis of PAPP-A expression in non-transfected: sc-110760 (A) and mouse PAPP-A transfected: sc-179290 (B) 293 whole cell lysates.



PAPP-A (B-7): sc-365226. Western blot analysis of PAPP-A expression in non-transfected: sc-110760 (A) and mouse PAPP-A transfected: sc-179290 (B) 293 whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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