

SMPDL3B (m2): 293T Lysate: sc-126022

BACKGROUND

SMPDL3B (sphingomyelin phosphodiesterase, acid-like 3B), also known as ASMLPD or ASML3B (acid sphingomyelinase-like phosphodiesterase 3B), is a 455 amino acid secreted protein belonging to the acid sphingomyelinase family. It is expressed in granulosa cells of the ovarian follicle and is a homolog of ASM (acid sphingomyelinase). ASM is a lysosomal protein that hydrolyzes sphingomyelin to ceramide and phosphocholine playing an important role in apoptosis of germ cell lines. Deficiency of ASM is associated with type A and type B Niemann-Pick disease. Type A is a fatal neurodegenerative disorder seen in infancy and resulting in death by age three, whereas type B is a non-neuropathic disease with a later onset.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Smpdl3b (mouse) mapping to 4 D2.3.

PRODUCT

SMPDL3B (m2): 293T Lysate represents a lysate of mouse SMPDL3B transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

SMPDL3B (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SMPDL3B antibodies. Recommended use: 10-20 µl per lane.

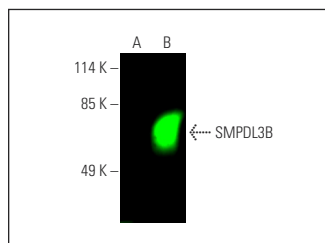
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SMPDL3B (H-3): sc-137113 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SMPDL3B expression in SMPDL3B transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

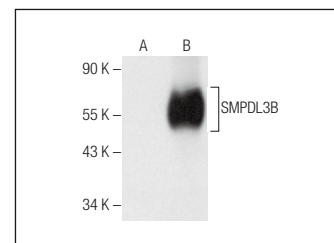
RECOMMENDED SUPPORT REAGENTS

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



SMPDL3B (H-3): sc-137113. Near-infrared western blot analysis of SMPDL3B expression in non-transfected: sc-117752 (A) and mouse SMPDL3B transfected: sc-126022 (B) 293T whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 680: sc-516180.



SMPDL3B (B-1): sc-376870. Western blot analysis of SMPDL3B expression in non-transfected: sc-117752 (A) and mouse SMPDL3B transfected: sc-126022 (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.

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.