

Phemx (FF-37): sc-81997

BACKGROUND

Phemx (pan-hematopoietic expression protein), also known as PHMX, TSPAN32 (tetraspanin-32) or TSSC6 (tumor-suppressing subtransferable candidate 6), is a member of the tetraspanin (TM4SF) family of proteins that may be involved in transmembrane signal transduction, regulation of cell proliferation, differentiation and motility. Phemx is a multi-pass membrane protein containing intracellular N- and C-terminal domains, four transmembrane domains and two extracellular loops. It is ubiquitously expressed from early embryogenesis through adulthood. Phemx exhibits predominant expression in hematopoietic tissues suggesting a role in hematopoietic-cell function. In association with the Integrin α IIb/Integrin β 3 complex, Phemx functions to stabilize arterial thrombi in platelets and regulate "outside-in" signaling. This interaction may be important in the process of wound healing. The gene encoding Phemx is located in an important tumor-suppressor gene region that has been associated with Beckwith-Wiedemann syndrome as well as a variety of cancers.

REFERENCES

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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: TSPAN32 (human) mapping to 11p15.5.

SOURCE

Phemx (FF-37) is a mouse monoclonal antibody raised against recombinant Phemx of human origin.

PRODUCT

Each vial contains 50 μ g IgG₁ kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Phemx (FF-37) is recommended for detection of Phemx of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Phemx siRNA (h): sc-62798, Phemx shRNA Plasmid (h): sc-62798-SH and Phemx shRNA (h) Lentiviral Particles: sc-62798-V.

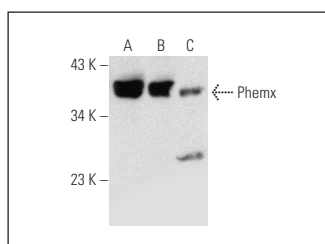
Molecular Weight of Phemx: 35 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, Hep G2 nuclear extract: sc-364819 or HeLa nuclear extract: sc-2120.

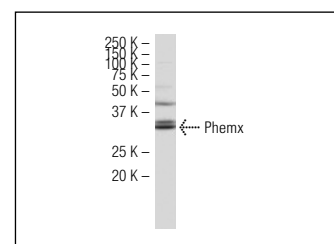
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



Phemx (FF-37): sc-81997. Western blot analysis of Phemx expression in Hep G2 (A) and Jurkat (B) nuclear extracts and WEHI-3 (C) whole cell lysate.



Phemx (FF-37): sc-81997. Western blot analysis of Phemx expression in HeLa nuclear extract.

RESEARCH USE

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