

PMEPA1 (C-17): sc-85828

BACKGROUND

PMEPA1 (prostate transmembrane protein, androgen induced 1), also known as STAG1 or TMEPA1, is a 287 amino acid single-pass membrane protein that contains WW-binding motifs and localizes to the cell membrane. Expressed at high levels in prostate and ovary, PMEPA1 interacts with NEDD4 and may play a role in regulating AR (androgen receptor) levels, specifically in prostate cells. Down regulation of PMEPA1 is observed in prostate tumors, suggesting that PMEPA1 may exhibit activity as a tumor suppressor. PMEPA1 exists as multiple alternatively spliced isoforms which are encoded by a gene that maps to human chromosome 20. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome.

REFERENCES

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- Rae, F.K., et al. 2001. Characterization of a novel gene, STAG1/PMEPA1, upregulated in renal cell carcinoma and other solid tumors. *Mol. Carcinog.* 32: 44-53.
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- Giannini, G., et al. 2003. EGF- and cell-cycle-regulated STAG1/PMEPA1/ERG1.2 belongs to a conserved gene family and is overexpressed and amplified in breast and ovarian cancer. *Mol. Carcinog.* 38: 188-200.
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CHROMOSOMAL LOCATION

Genetic locus: PMEPA1 (human) mapping to 20q13.31; Pmepa1 (mouse) mapping to 2 H3.

STORAGE

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

SOURCE

PMEPA1 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of PMEPA1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85828 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PMEPA1 (C-17) is recommended for detection of PMEPA1 of mouse, rat and 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

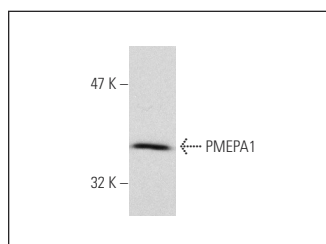
PMEPA1 (C-17) is also recommended for detection of PMEPA1 in additional species, including equine.

Suitable for use as control antibody for PMEPA1 siRNA (h): sc-76176, PMEPA1 siRNA (m): sc-152344, PMEPA1 shRNA Plasmid (h): sc-76176-SH, PMEPA1 shRNA Plasmid (m): sc-152344-SH, PMEPA1 shRNA (h) Lentiviral Particles: sc-76176-V and PMEPA1 shRNA (m) Lentiviral Particles: sc-152344-V.

Molecular Weight of PMEPA1: 32 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

DATA



PMEPA1 (C-17): sc-85828. Western blot analysis of PMEPA1 expression in HeLa whole cell lysate.

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

Try **PMEPA1 (2A12): sc-293372**, our highly recommended monoclonal alternative to PMEPA1 (C-17).