

FEM1A (E-12): sc-68487

BACKGROUND

Apoptosis is an evolutionarily conserved process that is essential for tissue homeostasis and development including sex determination. The FEM proteins are components of a novel signal transduction pathway and are required for male sexual development in the nematode *C. elegans*. FEM1A (FEM-1 homolog a), also known as EPRAP (prostaglandin E receptor 4-associated protein), is a 669 amino acid cytoplasmic protein that belongs to the FEM-1 family. FEM1A is present in atheromata and in macrophages derived from peripheral blood monocytes. FEM1A may be a component of an E3 ubiquitin-protein ligase complex and functions as a substrate recognition subunit. It is suggested that FEM1A participates in anti-inflammatory signaling of macrophages via its interaction with EP4. FEM1A is downregulated in rhabdomyosarcoma, the most common soft tissue neoplasm of children. FEM1A is considered a candidate gene for polycystic ovary syndrome.

REFERENCES

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RESEARCH USE

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

CHROMOSOMAL LOCATION

Genetic locus: FEM1A (human) mapping to 19p13.3; Fem1a (mouse) mapping to 17 D.

SOURCE

FEM1A (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FEM1A 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-68487 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FEM1A (E-12) is recommended for detection of FEM1A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

FEM1A (E-12) is also recommended for detection of FEM1A in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for FEM1A siRNA (h): sc-75013, FEM1A siRNA (m): sc-75014, FEM1A shRNA Plasmid (h): sc-75013-SH, FEM1A shRNA Plasmid (m): sc-75014-SH, FEM1A shRNA (h) Lentiviral Particles: sc-75013-V and FEM1A shRNA (m) Lentiviral Particles: sc-75014-V.

Molecular Weight of FEM1A: 70 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

PROTOCOLS

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