

Annexin VIII (K-16): sc-30768

BACKGROUND

The annexin family is composed of at least ten mammalian genes that encode calcium-binding proteins. The annexin proteins are characterized by a conserved core domain, which binds to phospholipids in a calcium-dependent manner. Annexin family members have been implicated as regulators of such diverse processes as ion flux, endocytosis and exocytosis, and cellular adhesion. Annexin V is ubiquitously expressed at high levels in tissues and cells grown in tissue culture, while Annexin VIII exhibits a more limited distribution. Where coexpressed in the same tissues, Annexin VIII is often expressed at a 100-fold lower level than Annexin V. However, Annexin VIII is preferentially expressed in acute promyelocytic leukemia (APL) cells, which may relate to its role in hematopoietic cell differentiation. At this time it is believed that there are duplicated copies of ANXA8-like genes on human chromosome 10q11 which putatively encode 3 highly similar proteins designated ANXA8L1 and ANXA8L2 (Annexin A8-like 1 and Annexin A8-like 2).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ANXA8/ANXA8L1/ANXA8L2 (human) mapping to 10q11.22; Anxa8 (mouse) mapping to 14 B.

SOURCE

Annexin VIII (K-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Annexin VIII of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-30768 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Annexin VIII (K-16) is recommended for detection of Annexin VIII 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); also recommended for detection of ANXA8L1 and ANXA8L2 of human origin.

Annexin VIII (K-16) is also recommended for detection of Annexin VIII in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Annexin VIII siRNA (h): sc-29692, Annexin VIII siRNA (m): sc-29693, Annexin VIII shRNA Plasmid (h): sc-29692-SH, Annexin VIII shRNA Plasmid (m): sc-29693-SH, Annexin VIII shRNA (h) Lentiviral Particles: sc-29692-V and Annexin VIII shRNA (m) Lentiviral Particles: sc-29693-V.

Molecular Weight of Annexin VIII: 36 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214, JAR cell lysate: sc-2276 or L8 cell lysate: sc-3807.

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.

RESEARCH USE

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



Try **Annexin VIII (C-11): sc-514498** or **Annexin VIII (D-1): sc-271577**, our highly recommended monoclonal alternatives to Annexin VIII (K-16).