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Product Information

Monoclonal Anti-Annexin 4, Clone ANX47
produced in mouse, purified immunoglobulin

Catalog Number **SAB4200121**

Product Description

Monoclonal Anti-Annexin 4 (mouse IgG1 isotype) is derived from the hybridoma ANX47 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a recombinant human Annexin 4 protein (GeneID 307). The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-Annexin 4 recognizes human, monkey, bovine and mouse annexin 4. The product may be used in several immunochemical techniques including immunoblotting (34 kDa) and immunohistochemistry.

Annexins are a ubiquitous protein family characterized by an ability to bind to phospholipids at membrane surfaces in response to elevated calcium. A member of this family, Annexin IV (ANX4), has 45% to 59% identity with other members of its family and shares a similar size and exon-intron organization. It's epithelial form binds to, and polymerizes on, cell surface membranes in response to increases in intracellular calcium.[1-3] Although Annexin 4 functions have not been completely characterized, previous studies have identified major involvement of this protein in membrane permeability, exocytosis and regulation of ion channels.[4-7] Its role in membrane fluidity and membrane trafficking may explain in part the involvement of Annexin 4 in modulating drug resistance in cancer cells. Indeed, Annexin 4 was found to confer chemoresistance in ovarian cancer cells in part by enhancing drug efflux.[8]

Reagent

Supplied as a solution in 0.01M phosphate buffered saline pH 7.4, containing 15 mM sodium azide.

Antibody concentration: ~ 1.5 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store at –20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze at –20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 2-4 µg/mL is recommended using A431 total cell extracts.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

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GG,KAA,PHC 06/10-1