

Mouse Anti-Annexin VIII [D-1]: MC0488

Intended Use: For Research Use Only

Description: 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 10q11.22 which putatively encode 3 highly similar proteins designated ANXA8L1 and ANXA8L2 (Annexin A8-like 1 and Annexin A8-like 2).

Specifications

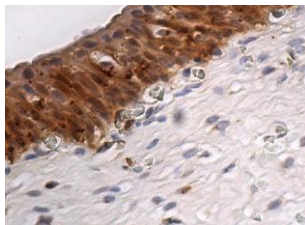
Clone: D-1
 Source: Mouse
 Isotype: IgG2a
 Reactivity: Human
 Localization: Nucleus, cytoplasm
 Formulation: Purified antibody in PBS buffer pH 7.5, containing 0.2% BSA and 15mM sodium azide as a preservative
 Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
 Applications: IHC for FFPE, Frozen
 Package:

Description	Catalog No.	Size
Annexin VIII Concentrated	MC0488	1 ml

IHC Procedure*

Positive Control Tissue: Urinary bladder
 Concentrated Dilution: 50-250
 Pretreatment: EDTA pH 8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



Human urinary bladder FFPE tissue stained with anti-Annexin VIII using DAB

References:

1. A genome-wide analysis of annexins from parasitic organisms and their vectors. Cinzia Cantacessi, et al. Nature, Scientific Reports 3, 2013, 11 October.
2. Annexin VIII is differentially expressed by chondrocytes in the mammalian growth plate during endochondral ossification and in osteoarthritic cartilage. White AH, et al. J Bone Miner Res. 2002 Oct;17(10):1851-8.
3. New markers of pancreatic cancer identified through differential gene expression analyses: claudin 18 and annexin A8. Karanjawala ZE, et al. Am J Surg Pathol 2008; 32:188-96.
4. Calcium-dependent binding of S-100C to the N-terminal domain of Annexin I. Mailliard, W.S., et al. J. Biol. Chem. 1996, 271: 719-725.
5. The high-resolution crystal structure of human Annexin III shows subtle differences with Annexin V. Favier-Perron, B., et al. Biochemistry 1996, 35: 1740-1744.

Doc. 100-MC0488
Rev. A