PRODUCT INFORMATION

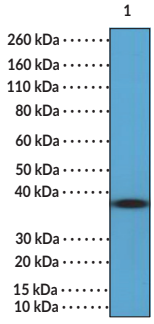
Annexin A1 Rabbit Monoclonal Antibody (Clone RM424)

Item No. 42828

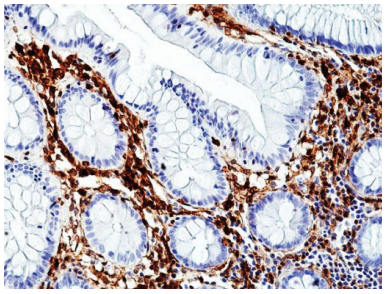
Overview and Properties

Contents:	This vial contains 100 µl of protein A-affinity purified recombinant monoclonal antibody
Synonyms:	p35, Annexin I, ANXA1, Calpactin II, Chromobindin-9, Lipocortin I
Immunogen:	A peptide corresponding to the N-terminus of human Annexin A1
Cross Reactivity:	(+) Annexin A1
Species Reactivity:	(+) Human
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥1 year
Storage Buffer:	PBS, with 50% glycerol, 1% BSA, and 0.09% sodium azide
Clone:	RM424
Host:	Rabbit
Isotype:	IgG
Applications:	Immunohistochemistry (IHC) and Western blot (WB); the recommended starting dilution is 1:100-1:200 for IHC and 1:100-1:2,000 for WB. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

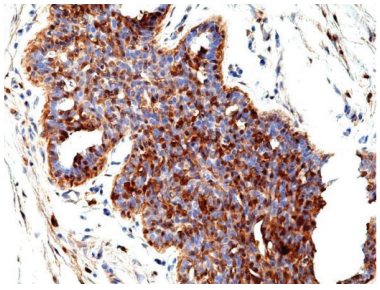
Images



WB of K562 cell lysate using Annexin A1 Rabbit Monoclonal Antibody (Clone RM424) at a dilution of 1:2,000.



Immunohistochemical staining of formalin-fixed and paraffin-embedded human colon tissue section using Cayman's Annexin A1 Rabbit Monoclonal Antibody (Clone RM424) at a dilution of 1:100.



Immunohistochemical staining of formalin-fixed and paraffin-embedded human breast tissue section using Cayman's Annexin A1 Rabbit Monoclonal Antibody (Clone RM424) at a dilution of 1:100.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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PRODUCT INFORMATION

Description

Annexin A1 is a member of the annexin superfamily with roles in eicosanoid generation, innate and adaptive immunity, and the resolution of inflammation.[1-4] Under homeostatic conditions, annexin A1 is localized in the cytosol and expressed primarily in innate immune cells, including eosinophils, mast cells, macrophages, neutrophils, and monocytes, but is also expressed in lymphocytes.[1,4] Annexin A1 interacts with phospholipase A_2 (PLA_2) to prevent eicosanoid synthesis and reduce neutrophil recruitment into inflammatory sites.[5] It also induces neutrophil apoptosis and promotes efferocytosis. Differential expression of annexin A1 has been associated with cancer progression, metastasis, lymphatic invasion, and chemoresistance.[3,4] Cayman's Annexin A1 Rabbit Monoclonal Antibody (Clone RM424) can be used for immunohistochemistry (IHC) and Western blot (WB) applications.

References

1. Kelly, L., McGrath, S., Rodgers, L., *et al*. Annexin-A1: The culprit or the solution? Immunology **166(1)**, 2-16 (2022).
2. Araújo, T.G., Mota, S.T.S., Ferreira, H.S.V., *et al*. Annexin A1 as a regulator of immune response in cancer. *Cells* **10(9)**, 2245 (2021).
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4. Bruschi, M., Petretto, A., Vaglio, A., *et al*. Annexin A1 and autoimmunity: From basic science to clinical applications. *Int. J. Mol. Sci.* **19(5)**, 1348 (2018).
5. Sugimoto, M.A., Vago, J.P., Teixiera, M.M., *et al*. Annexin A1 and the resolution of inflammation: Modulation of neutrophil recruitment, apoptosis, and clearance. *J. Immunol. Res.* **2016**, 8239258, (2016).

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