

Mouse annexin V Monoclonal Antibody | anti-ANXA5 antibody

Mouse anti annexin V

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77497	Mouse	Human, Zebrafish	Immunohistochemistry, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

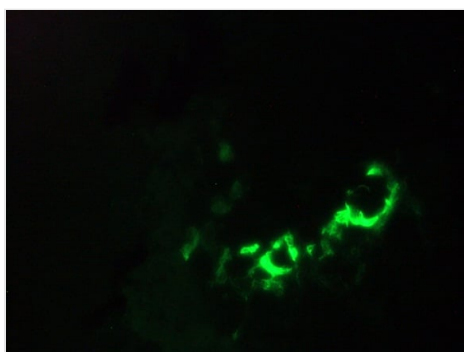
PRODUCT SYNONYMS

annexin V; Monoclonal Antibody; Mouse anti annexin V; anti-ANXA5 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Zebrafish
Clonality	Monoclonal
Isotype	IgG1
Clone Number	RUU-WAC2A
Specificity	RUU-WAC2A reacts anti Human recombinant and endogenous annexin A5. It shows no cross reactivity with Annexins I, II, III, IV, VI, VII and VIII in ELISA or in immunoprecipitation. It does not recognise Monkey and Rat Annexin V in ELISA.
Form/Format	Each vial contains 100 ul of 1 mg/ml purified antibody in PBS containing 0.09% sodium azide.
Applicable Applications for anti-ANXA5 antibody	IHC (Immunohistochemistry), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Source Note	RUU-WAC2a is a Mouse monoclonal IgG1 antibody obtained by fusion of P3-X63-Ag 8,653 Mouse myeloma cells with spleen cells from a BABL/c Mouse immunized with recombinant annexin A5.
Preparation and Storage	Store at 4 degree C, or in small aliquots at -20 degree C.

IMAGES



Application Data

Figure 1: Immunofluorescence staining of a 7 days old zebrafish embryo

ADDITIONAL INFORMATION

Related Product Information for anti-ANXA5 antibody	Annexin A5 (or annexin V) is a cellular protein of the annexin family. Annexin A5 has been proposed to play a role in the inhibition of blood coagulation by competing for phosphatidylserine binding sites with prothrombin, and also to inhibit the activity of phospholipase A1. Annexin A5 forms a shield around negatively-charged phospholipid molecules, which blocks the entry of phospholipids into coagulation (clotting) reactions. Antibodies directed anti annexin A5 are the cause of the antiphospholipid syndrom in which the formation of the shield is disrupted by antibodies. Without the shield, there is an increased quantity of phospholipid molecules on cell membranes, speeding up coagulation reactions and causing the blood-clotting characteristic of the antiphospholipid antibody syndrome. Annexin A5 is used as a probe in the annexin A5 affinity assay to detect cells that have expressed phosphatidylserine on the cell surface, a feature found in apoptosis aswell as other forms of cell death (1,2). Platelets also expose phosphatidyl-serine on their surface when activated, which serves as binding site for various coagulation factors. Annexin A5 has been shown to interact with kinase insert domain receptor (3) and integrin beta 5 (4). RUU-WAC2a is a monoclonal that specifically reacts with annexin A5. This monoclonal antibody is directed to the phospholipid binding domain of annexin A5 and as such it inhibits annexin A5 binding to anionic phospholipid membranes for more than 95%. RUU-WAC 2A does not remove annexin A5 bound to phospholipid surfaces indicating that the epitope is not accessible after interaction with annexin A5.
Product Categories/Family for anti-ANXA5 antibody	Annexins ; Apoptosis
References	Koopman, G., Reutelingsperger, C.P., Kuijten, G.A.M. et al. (1994). Annexin V for flow cytometric detection of phosphatidylserine expression on B cells undergoing apoptosis. Blood 84, 1415-20. Vermes, I., Haanen, C., Steffens-Nakken, H. and Reutelingsperger, C. (1995). A novel assay for apoptosis-flow cytometric detection of phosphatidylserine expression on early apoptotic cells using fluorescein labelled Annexin V. J Immunol Methods 184, 39. Wen, Y., Edelman J.L., Kang, T. and Sachs, G. (1999). Lipocortin V may function as a signaling protein for vascular endothelial growth factor receptor-2/Flk-1. Biochem. Biophys. Res. Commun. 258, 713-21. Cardó-Vila, M., Arap, W. and Pasqualini, R. (2003). Alpha v beta 5 integrin-dependent programmed cell death triggered by a peptide mimic of annex V. Mol. Cell 31, 1151-62. Van Heerde, W.L. (1994). Thesis; localization, plasma levels and anticoagulant activity. Van Heerde, W.L., Reutelingsperger, C.P., Maassen, C., Lux, P., Derksen, R.H. and De Groot, P.G. (2003). The presence of antiphospholipid antibodies is not related to increased levels of annexin A5 in plasma. Jn Thromb Haemost. 3, 532-536. Van Heerde, W.L., Lap, P., Schoormans, S., De Groot, P.G., Reutelingsperger, C.P.M. and Vroom, T.M. (2004). Localization of annexin A5 in Human tissues. Annexins 1, 37-43

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502107
NCBI GeneID	308
NCBI Accession #	NP_001145.1
NCBI GenBank Nucleotide #	NM_001154.3
UniProt Accession #	P08758 ; Q6FHB3 ; Q6FI16 ; Q8WV69 ; Q9UDH9 ; D3DNW7
Molecular Weight	35,937 Da
NCBI Official Full Name	annexin A5
NCBI Official Synonym Full Names	annexin A5
NCBI Official Symbol	ANXA5
NCBI Official Synonym Symbols	PP4; ANX5; ENX2
NCBI Protein Information	annexin A5; CBP-I; PAP-I; VAC-alpha; annexin V; annexin-5; anchorin CII; endonexin II; lipocortin V; calphobindin I; OTTHUMP00000164026; OTTHUMP00000219982; OTTHUMP00000219983; OTTHUMP00000219985; thromboplastin inhibitor; vascular anticoagulant-alpha; placental anticoagulant protein 4; placental anticoagulant protein I
UniProt Protein Name	Annexin A5
UniProt Gene Name	ANXA5
UniProt Synonym Gene Names	ANX5; ENX2; PP4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/annexin-v-antibody-clone-ruu-wac2a-immunohistochemistry-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/77497>