

Product datasheet for **AM32999PU-N**

Annexin V (ANXA5) Mouse Monoclonal Antibody [Clone ID: RUU-WAC2A]

Product data:

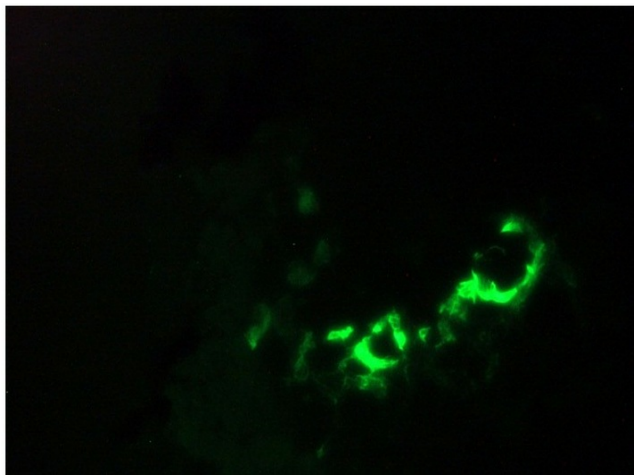
Product Type:	Primary Antibodies
Clone Name:	RUU-WAC2A
Applications:	FC, IF, IHC
Recommended Dilution:	ELISA in combination with a polyclonal antibody raised against Annexin V in Rabbit. Immunofluorescence to paraformaldehyde fixed cell samples. Immunohistochemistry on Frozen, Immunohistochemistry on Formaldehyde Fixed, Paraffin-Embedded Sections. For Immunohistochemistry of paraffin sections a pretreatment step with 2% amino-propyl-triethoxysilan (in 100% ethanol) and 0,2 % BSA is recommended. The sections are heated for 15 minutes at 100°C in a citrate buffer (10 mM trisodium citrate, pH 6,0). The sections are then further processed by routine procedures. <i>Recommended Dilutions:</i> 1/50-1/100 for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent and 1/100-1/500 for immunoblotting applications.
Reactivity:	Human, Zebrafish
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Annexin A5.
Specificity:	<i>RUU-WAC2A</i> 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%. <i>RUU-WAC2A</i> does not remove Annexin A5 bound to phospholipid surfaces indicating that the epitope is not accessible after interaction with Annexin A5. <i>RUU-WAC2A</i> reacts against 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.



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Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.
Stability:	Shelf life: One year from despatch.
Gene Name:	annexin A5
Database Link:	Entrez Gene 308 Human P08758
Background:	<p>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 against 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.</p> <p>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 as well 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.</p> <p>Annexin A5 has been shown to interact with kinase insert domain receptor (3) and integrin beta 5 (4).</p>
Synonyms:	Annexin-5, Annexin V, Lipocortin V, Endonexin II, Calphobindin I, Anchorin CII, ANX5, ENX2, PP4, CBP-I, PAP-I, VAC-alpha

Product images:



Immunofluorescence staining of a 7 days old zebrafish embryo.