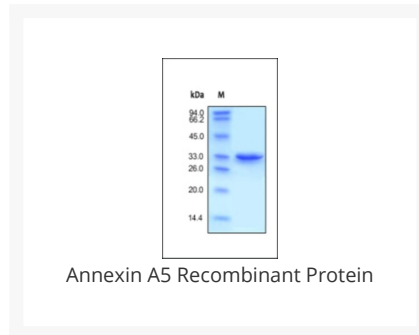




Annexin A5 Recombinant Protein

Cat. No.: 96-029




Ψ Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	Met 1 - Aps 320
FUSION TAG:	Tag free
TESTED APPLICATIONS:	WB
APPLICATIONS:	This recombinant protein can be used for WB. For research use only.
PREDICTED MOLECULAR WEIGHT:	36 kDa

Ψ Properties

PURITY:	>98% as determined by SDS-PAGE.
PHYSICAL STATE:	Lyophilized
BUFFER:	PBS, pH7.4
STORAGE CONDITIONS:	Lyophilized Protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-thaw cycles.

OFFICIAL SYMBOL:	ANXA5
ALTERNATE NAMES:	ANXA5, ANX5, ENX2, PP4, Annexin V, Annexin A5
ACCESSION NO.:	AAH01429
GENE ID:	308

 Background and References

BACKGROUND:	<p>Anexin A5 is a phospholipid binding protein, which binds with high affinity and selectivity to PS in the presence of calcium. PS is predominantly located in membrane leaflets, which face the cytosol. However, recent findings show that each cell type has the molecular machinery to expose PS at its cell surface. This machinery is activated during the execution of apoptosis. Once PS is exposed at the cell surface it exhibits procoagulant and proinflammatory activities. Anexin A5 will bind to the PS-exposing apoptotic cell and can inhibit the procoagulant and proinflammatory activities of the dying cell. Anexin A5 has also been identified as an anticoagulant protein in the blood coagulation cascade, by acting as an inhibitor of prothrombin activation. The presence of antibodies to Anexin A5 is associated with systemic lupus erythematosus (SLE), recurrent spontaneous abortions and systemic sclerosis (SSc).</p>
REFERENCES:	<p>1) Adekunle I. Elegbede a, D.K. Srivastava, et al. 2006, Protein Expression and Purification 50: 157–162.</p>
	<p>2) Bent Brachvogel, Heike Welzel, et al. 2001, Mechanisms of Development 109: 389–393.</p>

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