

Recombinant Human Annexin A5, Biotin

Cat. No. ANXA5-2624H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Annexin A5- Biotin is expressed in <i>E. coli</i> .
Species	Human
Source	E.coli
Description	Annexin 5 is a member of the annexin family of calcium-dependent phospholipid binding proteins. Annexin 5 is a phospholipase A2 and protein kinase C inhibitory protein with calcium channel activity and a potential role in cellular signal transduction, inflammation, growth and differentiation. In vitro studies have shown that Annexin 5 is a cellular protein which plays a role in the inhibition of blood coagulation by competing for phosphatidylserine binding sites with prothrombin. Through affinity assays Annexin 5 has been localized on cells that expressed phosphatidylserine on the cell surface, a feature found in apoptosis as well as other forms of cell death.
Purity	>98% pure as demonstrated by SDS-gel electrophoresis and reverse phase HPLC.
Molecular Weight	35.8 kDa.
Presentation	Solution containing 50 mM TRIS, 100 mM NaCl, 1% BSA, 0.02% Sodium Azide, pH 7.4.
Biological Activity	Annexin V exhibits anti-phospholipase activity and binds to phosphatidylserine (PS).

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Application	Biotin labelling allows simple direct detection of PS by FACS analysis using fluorescence-labeled Streptavidin. Counterstaining by propidium iodide allows the discrimination of apoptotic cells.
Storage	Stable at 2°-8°C as indicated on the label. Do not freeze!
Conjugation	Biotin
GENE INFORMATION	
Gene Name	ANXA5 annexin A5 [Homo sapiens]
Synonyms	ANXA5; annexin A5; PP4; ANX5; ENX2; anchorin CII; endonexin II; lipocortin V; placental anticoagulant protein I; Annexin-5; Annexin V; Lipocortin V; Endonexin II; Calphobindin I; Placental anticoagulant protein I; Placental anticoagulant protein 4; Thromboplastin inhibitor; Vascular anticoagulant-alpha; VAC-alpha; CBP-I; PAP-I
Gene ID	308
mRNA Refseq	NM_001154
Protein Refseq	NP_001145
MIM	131230
UniProt ID	P08758
Chromosome Location	4q27
Function	calcium ion binding; calcium-dependent phospholipid binding; eukaryotic cell surface

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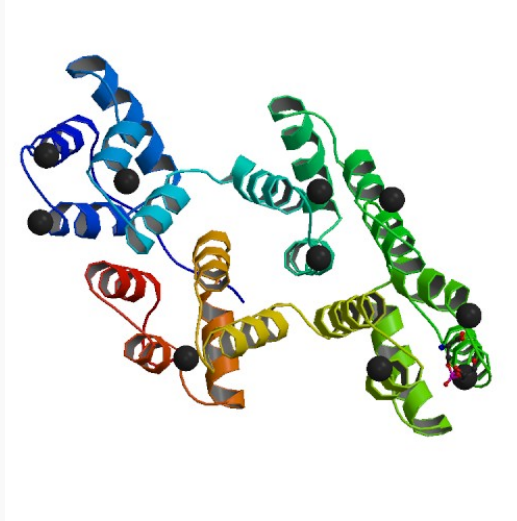
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binding; phospholipase inhibitor activity; protein binding; receptor tyrosine kinase binding

PDB rendering based on 1a8a.



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