

Recombinant Full Length Human ANXA5 Protein, Tag Free, PB Labeled

Cat. No. ANXA5-038H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Annexin A5 (Met1-Asp320) with N-His-Xa tag is expressed in E.coli system. His tag is cut by Xa after purification. This protein is then conjugated to PB.
Species	Human
Source	E.coli
ProteinLength	PB
Conjugation/Label	1-320 aa
Description	Annexin V is a calcium-dependent phospholipid-binding protein widely used as a tool to detect apoptosis. It belongs to the annexin family of proteins, which share the ability to bind negatively charged membrane phospholipids in the presence of calcium ions. Annexin V has high affinity for phosphatidylserine (PS), a phospholipid that is normally confined to the inner leaflet of the plasma membrane in healthy cells. During early apoptosis, PS becomes externalized to the outer leaflet, where Annexin V can bind, making it a sensitive marker for programmed cell death. Structurally, Annexin V is a ~35–36 kDa protein composed of four homologous annexin repeats that form a slightly curved, disc-like structure. Each repeat contributes to calcium-binding sites that coordinate calcium ions, enabling the protein to interact with phospholipid head groups. The convex surface of Annexin V mediates membrane binding in a calcium-

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dependent manner, while the opposite surface remains exposed for detection when conjugated to fluorophores or other labels. Annexin V can also form two-dimensional arrays on membrane surfaces under certain conditions.

Form	Liquid, 1×PBS buffer, pH7.4, 0.09% NaN ₃ with a carrier protein
Molecular Mass	This protein has a predicted molecular weight of 35.9 kDa. Under DTT-reducing conditions, the protein migrates at approximately 35 kDa on SDS-PAGE prior to conjugation.
Applications	Flow Cytometry
Storage	Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8 centigrade for up to six months.
Concentration	25 µg size is bottled at 0.1 mg/mL concentration. 100 µg size is bottled at lot specific concentration.

GENE INFORMATION

Gene Name	ANXA5 annexin A5 [Homo sapiens (human)]
Official Symbol	ANXA5
Synonyms	ANXA5; annexin A5; ANX5, ENX2; CBP-I; PAP-I; VAC-alpha; annexin V; annexin-5; anchorin CII; endonexin II; lipocortin V; calphobindin I; thromboplastin inhibitor; vascular anticoagulant-alpha; placental anticoagulant protein 4; placental anticoagulant protein I; PP4; ANX5; ENX2;
Gene ID	308

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mRNA Refseq	NM_001154
Protein Refseq	NP_001145
MIM	131230
UniProt ID	P08758

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