

Annexin V (ANXA5) Active Protein | ANXA5 active protein

Active Annexin V (ANXA5)

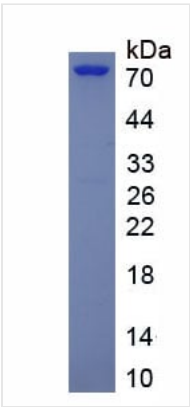
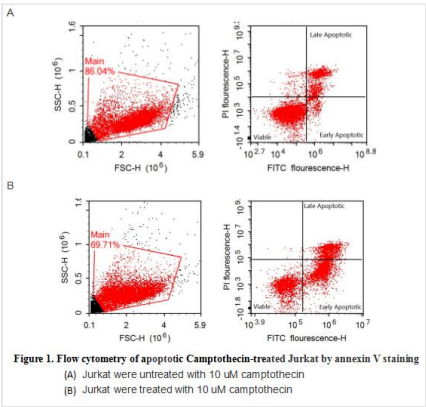
CATALOG # AAA161724	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Annexin V (ANXA5); Active Annexin V (ANXA5); Annexin V; ANX5; ENX2; PP4; PAP-I; CBP-I; Anchorin CII; Calphobindin I; Endonexin II; Lipocortin V; Placental anticoagulant protein 4; Thromboplastin inhibitor; Vascular anticoagulant-alpha4; ANXA5 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met1~Asp32 0+GGGGS*3+ Met1~Lys23 9
Applicable Applications for ANXA5 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	4.9
Research Area	Apoptosis, Hematology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



SDS-PAGE
Figure. SDS-PAGE

Bioactivity
Annexin V (ANXA5) is a multifunctional protein that is highly expressed on the apical surfaces of syncytiotrophoblasts, and plays an important role in haemostatic regulations, maintaining blood fluidity of the placenta. Lower ANXA5 levels have been observed in M2/ANXA5 haplotype carrying chorion. The association found between the maternal carriage of the M2/ANXA5 haplotype and an elevated risk of IUGR and/or PE supports the hypothesis that carrier status of this haplotype and the consequently reduced placental ANXA5 expression might be responsible, at least partially, for the onset of these gestational vascular complications. Annexin V is a calcium-dependent phospholipid binding protein that can be used to bind Phosphatidylserine (PS) during an early apoptosis event where the PS becomes exposed at the cell surface. Jurkat cells were treated with 10 uM camptothecin for 4h, 2*10⁵ cells which were resuspended in binding buffer were stained with 5 ug recombinant human Annexin V-GFP and 10 ul Propidium iodide (PI) for 20min in dark room temperature. The flow cytometry was used to detect the early apoptotic and late apoptotic of camptothecin-treated Jurkat cells (Figure 1), the combination of Annexin V-FITC and propidium iodide allows for the distinction between early apoptotic cells (Annexin V-FITC positive and propidium iodide negative), late apoptotic and/or necrotic cells (Annexin V-FITC and propidium iodide positive), and viable cells (unstained). Thus, the recombinant human Annexin V-GFP can bind Phosphatidylserine (PS) at early apoptosis of Jurkat.

ADDITIONAL INFORMATION

Product Categories/Family for ANXA5 active protein	Active proteins
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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; RPRGL3; HEL-S-7
NCBI Protein Information	annexin A5; CBP-I; PAP-I; VAC-alpha; annexin V; annexin-5; anchorin CII; endonexin II; lipocortin V; calphobindin I; thromboplastin inhibitor; vascular anticoagulant-alpha; epididymis secretory protein Li 7; placental anticoagulant protein 4; placental an

UniProt Protein Name	Annexin A5
UniProt Gene Name	ANXA5
UniProt Synonym Gene Names	ANX5; ENX2; PP4; CBP-I; PP4; PAP-I; VAC-alpha
UniProt Entry Name	ANXA5_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/annexin-v-anxa5/161724>