

Annexin A1 Active Protein | ANXA1 active protein

Active Annexin A1 (ANXA1)

CATALOG # AAA150136	HOST E. coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Annexin A1; Active Annexin A1 (ANXA1); ANX-A1; ANX1; LPC1; Lipocortin I; Chromobindin-9; Calpactin II; Phospholipase A2 inhibitory protein; ANXA1 active protein

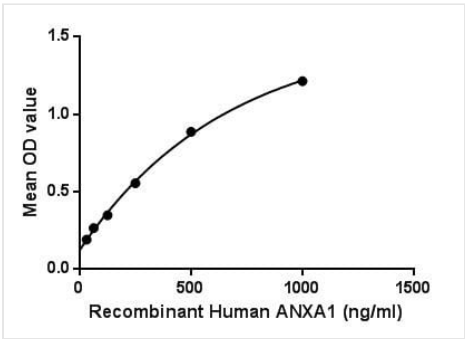
PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>98%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 300ug/mL (varies by lot)
Applicable Applications for ANXA1 active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression.
Residues	Met1~Asn346
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	6.1
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

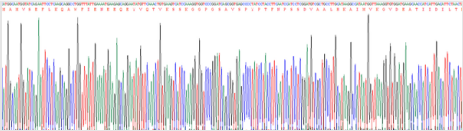
MAMVSEFLKQ	AMFIENEEOE	YVQTVKSSKG	GPQSAVSPYP	TFNPSSDVAA
LHKAIMVKGV	DEATIIDILT	KRNNAQRQOI	KAAYLQETGK	PLDETLKKAL
TGHLEEVVLA	LLKTPAQFDA	DELRAAMKGL	GTOEDTLIEI	LASRTNKEIR
DINRVYREEL	KROIAKDTTS	DTSCDFRNAL	LSIAKGORSE	DFGVNEDLAD
SDARALYEAG	ERRKGTDVNV	FNITLITRSY	PQLRRVFQKY	TKYSKIDMNM
VLDELKGGDI	EKCLTAIVKC	ATSKPAFFAE	KLHQAMKGVG	TRHKALIRIM
VSRSEIDMND	IKAFYQKMYG	ISLCQAILDE	TKGDYEKILV	ALCGGN

Application Data

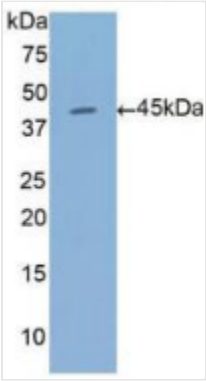


Bioactivity

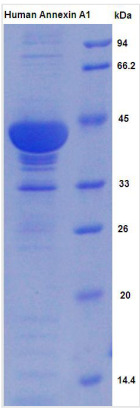
Annexin A1 (ANXA1), also known as lipocortin I, belongs to the annexin family of Ca²⁺-dependent phospholipid-binding proteins that have a molecular weight of approximately 35,000 to 40,000 and are preferentially located on the cytosolic face of the plasma membrane. Annexin A1 protein has an apparent relative molecular mass of 40kDa with phospholipase A2 inhibitory activity. Besides, S100 Calcium Binding Protein A11 (S100A11) has been identified as an interactor of ANXA1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human ANXA1 and recombinant human S100A11. Briefly, ANXA1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100L were then transferred to S100A11-coated microtiter wells and incubated for 2h at 37. Wells were washed with PBST and incubated for 1h with anti-ANXA1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of ANXA1 and S100A11 was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of ANXA1 with S100A11.



Gene Sequencing
Figure. Gene Sequencing (Extract)



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ANXA1 active protein	Activity: Annexin A1 (ANXA1), also known as lipocortin I, belongs to the annexin family of Ca ²⁺ -dependent phospholipid-binding proteins that have a molecular weight of approximately 35,000 to 40,000 and are preferentially located on the cytosolic face of the plasma membrane. Annexin A1 protein has an apparent relative molecular mass of 40kDa with phospholipase A2 inhibitory activity. Besides, S100 Calcium Binding Protein A11 (S100A11) has been identified as an interactor of ANXA1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human ANXA1 and recombinant human S100A11. Briefly, ANXA1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to S100A11-coated microtiter wells and incubated for 2h at 37?. Wells were washed with PBST and incubated for 1h with anti-ANXA1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37?. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of ANXA1 and S100A11 was shown in Figure 1, and this effect was in a dose dependent manner.
Product Categories/Family for ANXA1 active protein	Tumor immunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502101
NCBI GeneID	301
NCBI Accession #	NP_000691.1
NCBI GenBank Nucleotide #	NP_000691.1
UniProt Accession #	P04083
Molecular Weight	Predicted Molecular Mass: 45.4kDa Accurate Molecular Mass: 44kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	annexin A1
NCBI Official Synonym Full Names	annexin A1
NCBI Official Symbol	ANXA1
NCBI Official Synonym Symbols	ANX1; LPC1
NCBI Protein Information	annexin A1
UniProt Protein Name	Annexin A1
UniProt Gene Name	ANXA1
UniProt Synonym Gene Names	ANX1; LPC1
UniProt Entry Name	ANXA1_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-anxa1-homo-sapiens-human-active-protein/annexin-a1/150136>