

Annexin A1 Active Protein | ANXA1 active protein

Active Annexin A1 (ANXA1)

CATALOG # AAA150137	HOST E. coli	REACTIVITY Mus musculus (Mouse)	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	Mus musculus (Mouse)
Purity/Purification	>92%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl and 5% trehalose.
Concentration	100ug/mL (varies by lot)
Applicable Applications for ANXA1 active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression.
Residues	Glu6~Asn346
Tags	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted Isoelectric Point	6.2
Predicted Molecular Mass	44.9kDa
Phenomenon Explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in ddH2O to a concentration of 0.1-0.5 mg/mL. Do not vortex.
Preparation and 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.

IMAGES



WB (Western Blot)

Figure 4. Western BlotSample: Recombinant ANXA1, Mouse;Antibody: Rabbit Anti-Mouse ANXA1 Ab



SDS_PAGE

Figure 3. SDS-PAGESample: Active recombinant ANXA1, Mouse



Application Data

Figure 2. Gene Sequencing (extract)



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 mouse ANXA1 and recombinant mouse 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 degrees. 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 degrees. 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.



Sequence

ADDITIONAL INFORMATION

Product Categories/Family for ANXA1 active protein	Tumor immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	124517663
NCBI GeneID	16952
NCBI Accession #	NP_034860.2
NCBI GenBank Nucleotide #	NP_034860.2
UniProt Accession #	P10107
Molecular Weight	40kDa 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	Lpc1; Anx-1; Lpc-1; Anx-A1; C430014K04Rik
NCBI Protein Information	annexin A1

UniProt Protein Name	Annexin A1
UniProt Gene Name	Anxa1
UniProt Synonym Gene Names	Anx1; Lpc-1; Lpc1
UniProt Entry Name	ANXA1_MOUSE

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-mouse-mus-musculus-active-protein/annexin-a1/150137>