

Annexin A2 (ANXA2) Active Protein | ANXA2 active protein

Active Annexin A2 (ANXA2)

CATALOG #
AAA149253

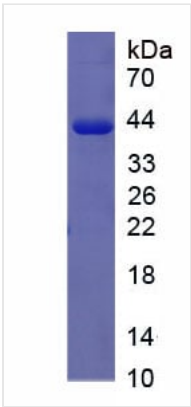
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

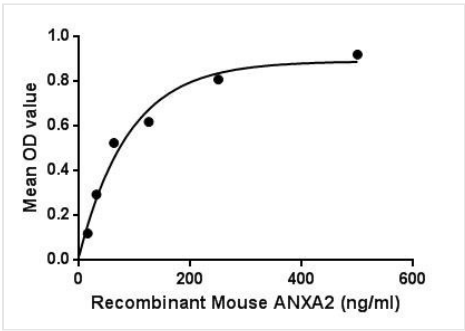
Annexin A2 (ANXA2); Active Annexin A2 (ANXA2); ANX-A2; ANX2L4; CAL1H; LIP2; LPC2; LPC2D; P36; PAP-IV; Protein I; Chromobindin-8; Calpactin-1 heavy chain; Lipocortin II; Placental anticoagulant protein IV; ANXA2 active protein

PRODUCT SPECIFICATIONS

Purity/Purification	> 97%
Form/Format	Freeze-Dried Powder; 20mM Tris, 150mM NaCl, pH8.0, Containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Val46~Glu181
Sequence Length	339
Applicable Applications for ANXA2 active protein	Activity Assay, Cell Culture
Species	Mouse
Tag	N-terminal His-Tag
Isoelectric Point	7.6
Subcellular Location	Secreted, Extracellular Matrix
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. 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.



SDS-PAGE



Activity

Figure. The binding activity of ANXA2 with S100A10. Annexin A2 (ANXA2) also known as annexin II is a member of the annexin family. Members of this calcium-dependent phospholipid-binding protein family play a role in the regulation of cellular growth and in signal transduction pathways. This protein functions as an autocrine factor which heightens osteoclast formation and bone resorption. It is a calcium-dependent phospholipid-binding protein whose function is to help organize exocytosis of intracellular proteins to the extracellular domain. Besides, S100 Calcium Binding Protein A10 (S100A10) has been identified as an interactor of ANXA2, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse ANXA2 and recombinant mouse S100A10. Briefly, ANXA2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to S100A10-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-ANXA2 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 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of ANXA2 and S100A10 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for ANXA2 active protein	Signal transduction; Tumor immunity; Bone metabolism
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6996913
NCBI GeneID	12306
NCBI Accession #	NP_031611.1
NCBI GenBank Nucleotide #	NM_007585.3
UniProt Accession #	P07356
Molecular Weight	Predicted MW: 19.0kDa Accurate MW: 19kDa
NCBI Official Full Name	annexin A2
NCBI Official Synonym Full Names	annexin A2
NCBI Official Symbol	Anxa2
NCBI Official Synonym Symbols	Cal1h; AW215814
NCBI Protein Information	annexin A2
UniProt Protein Name	Annexin A2
UniProt Gene Name	Anxa2
UniProt Synonym Gene Names	Anx2; Cal1h; PAP-IV

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/active-protein/annexin-a2-anxa2/149253>