

Human Annexin A2 (natural)

Synonyms: ANX2, ANX2L4, CAL1H, LIP2, LPC2, LPC2D, P36, PAP-IV, ANXA2, Annexin A2, Annexin-2, Annexin II, Lipocortin II, Calpactin-1 heavy chain, Calpactin I heavy chain, Chromobindin-8, p36, Protein I, Placental anticoagulant protein IV.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
1 µg	4078.950.001		
5 µg	4078.950.005		
50 µg	4078.950.050		

Please enquire for bulk quantities and other vial sizes

Description

Human Annexin A2 (ANXA2) produced by Human Adipose Tissue has a molecular mass of 38.472kDa (calculated without glycosylation) and consists of 338 amino acids. It is part of the annexin family and is involved in the regulation of cellular growth and in signal transduction pathways. Annexin A2 (ANXA2) functions as an autocrine factor which increases osteoclast formation and bone resorption, it is also associated with sickle cell osteonecrosis. Reduced Annexin A2 (ANXA2) expression is associated with osteosarcoma metastases. Annexin A2 (ANXA2) is part of the putative cell surface vitamin D binding protein binding site complex and functions to mediate the chemotactic cofactor effect. Annexin A2 (ANXA2) is involved in dysferlin deficiency and in muscular dystrophies. Human colon adenocarcinoma cell differentiation is related with an up-regulation of Annexin A2 (ANXA2).

- **Source** Human Adipose Tissue
- **Purity** ≥ 90 % (SDS-PAGE)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** Phosphate (0.05M), NaCl (0.075M, pH 6.5)*
- **Physical state** lyophilized

Reconstitution

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Stability

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

Amino Acid Sequence

STVHEILCKL SLEGDHSTPP SAYGSVKAYT NFDAERDALN IETAIKTKGV DEVTIVNILT NRSNAQRQDI
 AFAYQRRTKK ELASALKSAL SGHLETVILG LLKTPAQYDA SELKASMKGL GTDEDSLIEI ICSRTNQELQ
 EINRVYKEMY KTDLEKDIIS DTSGDFRKLK VALAKGRRAE DGSVIDYELI DQDARDLYDA GVKRKGTDVP
 KWISIMTERS VPHLQKVFDR YKSYSPYDML ESIRKEVKGD LENAFLNLVQ CIQNKPLYFA DRLYDSMKGK
 GTRDKVLIRI MVSRSVDML KIRSEFKRKY GKSLYYYIQQ DTKGDYQKAL LYLCGGDD

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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