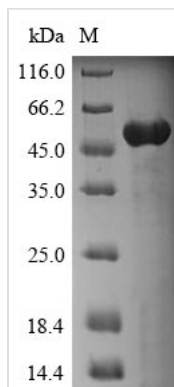




Recombinant Human Annexin A4 (ANXA4)

Product Code	CSB-EP001845HU
Relevance	Calcium/phospholipid-binding protein which promotes membrane fusion and is involved in exocytosis.
Abbreviation	Recombinant Human ANXA4 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P09525
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	ATKGGTVKAASGFNAMEDAQTLRKAMKGLGTDEDAIISVLAYRNTAQRQEIRT AYKSTIGRDLIDDLKSELSGNFEQVIVGMMTPTVLYDVQELRRAMKGAGTDEG CLIEILASRTPEEIRISQTYQQQYGRSLEDDIRSDTSFMFQRVLVSLSAGGRD EGNYLDDALVRQDAQDLYEAGEKKWGTDEVKFLTVCSSRNRNHLLHVFDEYK RISQKDIEQSIKSETSGSFEDALLAIVKCMRNKSAYFAEKLYKSMKGLGTDDNT LIRVMVSRAEIDMLDIRAHFKRLYGKSLYSFIKGDTS GDYRKVLLVLCGGDD
Research Area	Cardiovascular
Source	E.coli
Target Names	ANXA4
Protein Names	35-beta calcimedin Annexin IV Annexin-4 Carbohydrate-binding protein p33/p41 Chromobindin-4 Endonexin I Lipocortin IV P32.5 PP4-X Placental anticoagulant protein II
Expression Region	2-319aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	55.8 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 2-319 constitute the expression domain of recombinant Human ANXA4. This ANXA4 protein is theoretically predicted to have a molecular weight of 55.8 kDa. This ANXA4 recombinant protein is manufactured in e.coli. The N-terminal 10xHis-SUMO tag and C-terminal Myc tag was fused into the coding gene segment of ANXA4, making it easier to detect and purify the ANXA4 recombinant protein in the later stages of expression and purification.

Annexin A4 (ANXA4) is a protein that has recently attracted a lot of attention in research, especially in the study of cancer. It plays a crucial role in tumor invasion and metastasis. Researchers have found that when ANXA4 is excessively expressed, it is closely linked to the development and worsening of certain cancers, such as breast cancer and lung cancer. This makes ANXA4 a potential marker for cancer and a target for treatment, offering new perspectives for detecting and treating cancer early. Additionally, ANXA4 is connected to the regulation of inflammation and the immune system. Studies show its involvement in controlling cell apoptosis, inflammatory responses, and immune regulation, providing important insights into understanding diseases related to the immune system and inflammation.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.