

# Human ANXA6 / Annexin A6 / Annexin6 Protein (His Tag)

Catalog Number: 11161-H08E



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

ANX6; CBP68

### Protein Construction:

A DNA sequence encoding the human ANXA6 / Annexin A6 / Annexin6 (P08133) (Met 1-Asp 673) was fused with a polyhistidine tag at the C-terminus.

**Source:** Human

**Expression Host:** E. coli

## QC Testing

**Purity:** > 97 % as determined by SDS-PAGE

### Bio Activity:

**Measured by its ability to bind human CD21-His (Cat:10811-H08H) in functional Elisa.**

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met 1

### Molecular Mass:

The recombinant human ANXA6 / Annexin A6 / Annexin6 consisting of 683 amino acids and has a calculated molecular mass of 77.2 kDa. It migrates as an approximately 60 kDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

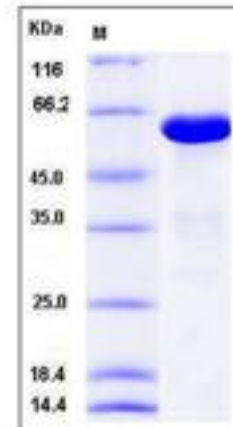
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

Annexin A6, also known as ANXA6 or ANXAVI, belongs to a family of Ca<sup>2+</sup>-dependent membrane and phospholipid binding proteins. Members of this family have been implicated in membrane-related events along exocytotic and endocytotic pathways. Annexin 6 is phosphorylated in vivo associated with cell growth. Annexin 6 was not phosphorylated in quiescent cells, but was phosphorylated on serine and to a lesser extent threonine, several hours following cell stimulation. Experiment has revealed the presence of annexin A6 on the cell surface of variety cells as putative receptors and / or binding proteins for chondroitin sulfate proteoglycans, helping cells to bind with this extracellular matrix glycosaminoglycan chondroitin sulfate which is related to the cell-substratum adhesion. A post-translational modification other than direct protein phosphorylation may influence the activity of annexin6 and provide evidence linking cell growth with regulation of annexin 6 function.

## References

- 1.Takagi H, *et al.* (2002) Annexin 6 is a putative cell surface receptor for chondroitin sulfate chains. *J Cell Sci.* 115 (16): 3309-18.
- 2.Moss SE, *et al.* (1992) A growth-dependent post-translational modification of annexin VI. *Biochim Biophys Acta.* 1160 (1): 120-6.
- 3.Song G, *et al.* (1998) Altered cardiac annexin mRNA and protein levels in the left ventricle of patients with end-stage heart failure. *J Mol Cell Cardio.* 30 (3): 443-51.

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