

## Annexin A6/ANXA6 Protein, Human (His)

<b>Cat. No.:</b>	HY-P7518
<b>Synonyms:</b>	rHuAnnexin A6, His; ANXA6; Annexin A6
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P08133 (A2-D673)
<b>Gene ID:</b>	309
<b>Molecular Weight:</b>	Approximately 60-90 kDa

### PROPERTIES

#### AA Sequence

A K P A Q G A K Y R	G S I H D F P G F D	P N Q D A E A L Y T	A M K G F G S D K E
A I L D I I T S R S	N R Q R Q E V C Q S	Y K S L Y G K D L I	A D L K Y E L T G K
F E R L I V G L M R	P P A Y C D A K E I	K D A I S G I G T D	E K C L I E I L A S
R T N E Q M H Q L V	A A Y K D A Y E R D	L E A D I I G D T S	G H F Q K M L V V L
L Q G T R E E D D V	V S E D L V Q Q D V	Q D L Y E A G E L K	W G T D E A Q F I Y
I L G N R S K Q H L	R L V F D E Y L K T	T G K P I E A S I R	G E L S G D F E K L
M L A V V K C I R S	T P E Y F A E R L F	K A M K G L G T R D	N T L I R I M V S R
S E L D M L D I R E	I F R T K Y E K S L	Y S M I K N D T S G	E Y K K T L L K L S
G G D D D A A G Q F	F P E A A Q V A Y Q	M W E L S A V A R V	E L K G T V R P A N
D F N P D A D A K A	L R K A M K G L G T	D E D T I I D I I T	H R S N V Q R Q Q I
R Q T F K S H F G R	D L M T D L K S E I	S G D L A R L I L G	L M M P P A H Y D A
K Q L K K A M E G A	G T D E K A L I E I	L A T R T N A E I R	A I N E A Y K E D Y
H K S L E D A L S S	D T S G H F R R I L	I S L A T G H R E E	G G E N L D Q A R E
D A Q V A A E I L E	I A D T P S G D K T	S L E T R F M T I L	C T R S Y P H L R R
V F Q E F I K M T N	Y D V E H T I K K E	M S G D V R D A F V	A I V Q S V K N K P
L F F A D K L Y K S	M K G A G T D E K T	L T R I M V S R S E	I D L L N I R R E F
I E K Y D K S L H Q	A I E G D T S G D F	L K A L L A L C G G	E D

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

The Annexins comprise a family of proteins that are involved in many aspects of cellular membrane dynamics and the regulation of membrane-associated proteins.

Annexin 6 is a 67kDa calcium-dependent protein, a prime target for facilitating membrane coalescence and folding required during membrane repair. Annexin 6 is involved in the regulation of the release of  $\text{Ca}^{2+}$  from intracellular stores and may be associated with CD21. In addition, Annexin 6 has been implicated in mediating the endosome aggregation and vesicle fusion in secreting epithelia during exocytosis.

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## REFERENCES

- [1]. Alexis R Demonbreun, et al. Recombinant annexin A6 promotes membrane repair and protects against muscle injury. *J Clin Invest*. 2019 Nov 1;129(11):4657-4670.
  - [2]. Ramin Raouf, et al. Inhibition of somatosensory mechanotransduction by annexin A6. *Sci Signal*. 2018 Jun 19;11(535):eaao2060.
  - [3]. Julie Leca, et al. Cancer-associated fibroblast-derived annexin A6+ extracellular vesicles support pancreatic cancer aggressiveness. *J Clin Invest*. 2016 Nov 1;126(11):4140-4156.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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