

## Product datasheet for PH321723

### Annexin VII (ANXA7) (NM\_004034) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ANXA7 MS Standard C13 and N15-labeled recombinant protein (NP_004025)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221723
Predicted MW:	52.6 kDa
Protein Sequence:	>RC221723 representing NM_004034 Red=Cloning site Green=Tags(s)

MSYPGYPTGYPPFGYPAGQESSFPSPGQYPYPSGFPMPGGAYPQVPSSGYPGAGGYAPGGYPAPG  
GYPGAPQPGGAPSYPGVPPGQGFVPPGGAGFSGYPQPPSQSYGGGPAQVPLPGGFPGGQMPSQYGGQP  
TYPQINTDSFSSYPVFSVSLDYSSEPATVTQVTQGTIRPAANFDAIRDAEILRKAMKGFDTDEQAIVD  
VVANRNDQRQKIKAAFKTSYKDLIKDLKSELSGNMEELILALFMPPTYDDAWSLRKAMQGAGTQERV  
IEILCTRTRNQEIREIVRCYQSEFGRDLEKDIRSDTSGHFERLLVSMCQGNRDNQSIHQMAQEDAQR  
LQAGEGRLGTDESCFNMILATRSFPQLRATMEAYSRRMANRDLLSSVSREFSGYVESGLKTIQLCALNRPA  
FAERLYYAMKGGATDDSTLVRIVVTRSEIDLQIKQMFQMYQKTLGTMIAGDTSGDYRRLLLAIVGQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_004025</u>
RefSeq Size:	2176
RefSeq ORF:	1464
Synonyms:	ANX7; SNX; SYNEXIN



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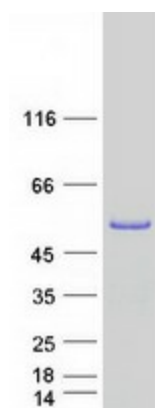
Locus ID: 310

UniProt ID: [P20073](#), [B2R657](#)

Cytogenetics: 10q22.2

**Summary:** Annexin VII is a member of the annexin family of calcium-dependent phospholipid binding proteins. The Annexin VII gene contains 14 exons and spans approximately 34 kb of DNA. An alternatively spliced cassette exon results in two mRNA transcripts of 2.0 and 2.4 kb which are predicted to generate two protein isoforms differing in their N-terminal domain. The alternative splicing event is tissue specific and the mRNA containing the cassette exon is prevalent in brain, heart and skeletal muscle. The transcripts also differ in their 3'-non coding regions by the use of two alternative poly(A) signals. Annexin VII encodes a protein with a molecular weight of approximately 51 kDa with a unique, highly hydrophobic N-terminal domain of 167 amino acids and a conserved C-terminal region of 299 amino acids. The latter domain is composed of alternating hydrophobic and hydrophilic segments. Structural analysis of the protein suggests that Annexin VII is a membrane binding protein with diverse properties, including voltage-sensitive calcium channel activity, ion selectivity and membrane fusion. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified ANXA7 protein (Cat# [TP321723]). The protein was produced from HEK293T cells transfected with ANXA7 cDNA clone (Cat# [RC221723]) using MegaTran 2.0 (Cat# [TT210002]).