Recombinant Full Length Human ANXA7 Protein, GST-tagged

Cat. No. ANXA7-1046HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ANXA7 full-length ORF (BAG35354.1, 1 a.a. - 488 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	488 amino acids
Description	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]

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Molecular Mass	80.08 kDa
AA Sequence	MSYPGYPPTG YPPFPGYPPA GQESSFPPSG QYPYPSGFPP MGGGAYPQVP SSGYPGAGGY PAPGGYPAPG GYPGAPQPGG APSYPGVPPG QGFGVPPGGA GFSGYPQPPS QSYGGGPAQV PLPGGFPGGQ MPSQYPGGQP TYPSQINTDS FSSYPVFSPV SLDYSSEPAT VTQVTQGTIR PAANFDAIRD AEILRKAMKG FGTDEQAIVD VVANRSNDQR QKIKAAFKTS YGKDLIKDLK SELSGNMEEL ILALFMPPTY YDAWSLRKAM QGAGTQERVL IEILCTRTNQ EIREIVRCYQ SEFGRDLEKD IRSDTSGHFE RLLVSMCQGN RDENQSINHQ MAQEDAQRLY QAGEGRLGTD ESCFNMILAT RSFPQLGATM EAYSRMANRD LLSSVSREFS GYVESGLKTI LQCALNRPAF FAERLYYAMK GAGTDDSTLV RIVVTRSEID LVQIKQMFAQ MYQKTLGTMI AGDTSGDYRR LLLAIVGQ
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ANXA7 annexin A7 [Homo sapiens]
Official Symbol	ANXA7
Synonyms	ANXA7; annexin A7; ANX7; annexin-7; annexin VII; SNX; SYNEXIN
Gene ID	310
mRNA Refseq	NM_001156

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Protein Refseq	NP_001147
MIM	186360
UniProt ID	P20073

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