

Product Information

MemDX™ Membrane Protein Escherichia coli ANXA7 (Annexin A7) for Antibody Discovery

Cat. No.: **MP0036X**

This product is for research use only and is not intended for diagnostic use.

This product is a 52.9 kDa Escherichia coli ANXA7 membrane protein expressed in *in vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Escherichia coli

Target Protein

ANXA7

Protein Length

Full-length

Molecular Weight

52.9 kDa

Sequence

MGSSHHHHHHSSGLVPRGSHMGSHMSYPGYPPPTGYPPFPGYPPAGQESSFPPSGQYPYPSGFPPMGGGAYPQVPSSGYPGAG

Product Description

Application

SDS-PAGE

Expression Systems

in vitro wheat germ expression system

Tag

His tag

Form

Liquid

Purity

> 85% by SDS-PAGE

Buffer

20 mM Mes buffer, 0.15 M NaCl, pH 5.0 (40% glycerol, 1 mM DTT)

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

ANXA7

Full Name

Annexin A7

Introduction

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

Alternative Names

ANX7; SNX; SYNEXIN; OTTHUMP00000019812; OTTHUMP00000019813; OTTHUMP00000042922; OTTHUMP00000042923; OTTHUMP00000042925; annexin VII

Gene ID

[310](#)

UniProt ID

[P20073](#)