

## Recombinant Human ANXA9 protein, His/GST-tagged

**Cat. No.** ANXA9-5262H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ANXA9(Met1~Met345) fused with His/GST tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Met1~Met345                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | The annexins are a family of calcium-dependent phospholipid-binding proteins. Members of the annexin family contain 4 internal repeat domains, each of which includes a type II calcium-binding site. The calcium-binding sites are required for annexins to aggregate and cooperatively bind anionic phospholipids and extracellular matrix proteins. This gene encodes a divergent member of the annexin protein family in which all four homologous type II calcium-binding sites in the conserved tetrad core contain amino acid substitutions that ablate their function. However, structural analysis suggests that the conserved putative ion channel formed by the tetrad core is intact. |
| <b>Form</b>             | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 68.4kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | MSVTGGKMAP SLTQEILSHL GLASKTAAWG TLGTLRTFLN FSVDKDAQRL<br>LRAITGQGVD RSAIVDVLTN RSREQRQLIS RNFQERTQQD LMKSLQAALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GNLERIVMAL LQPTAQFDAQ ELRTALKASD SAVDVAIEIL ATRTPPQLQE  
 CLAVYKHNFQ VEAUDDITSE TSGILQDLLL ALAKGGRDSY SGIIDYNLAE  
 QDVQALQRAE GPSREETWVP VFTQRNPEHL IRVFDQYQRS TGQELEEAVQ  
 NRFHGDAQVA LLGLASVIKN TPLYFADKLH QALQETEPNY QVLIRILISR  
 CETDLLSIRA EFRKKFGKSL YSSLQDAVKG DCQSALLALC RAEDM

|                       |                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | <1.0EU per 1g (determined by the LAL method)                                                                                 |
| <b>Purity</b>         | > 90%                                                                                                                        |
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP.                                                                                                     |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                    |

## GENE INFORMATION

|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ANXA9 annexin A9 [ Homo sapiens ]                                                     |
| <b>Official Symbol</b> | ANXA9                                                                                 |
| <b>Synonyms</b>        | ANXA9; annexin A9; ANX31; annexin-9; pemphaxin; annexin 31; annexin-31; annexin XXXI; |
| <b>Gene ID</b>         | 8416                                                                                  |
| <b>mRNA Refseq</b>     | NM_003568                                                                             |
| <b>Protein Refseq</b>  | NP_003559                                                                             |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MIM</b>                 | 603319                                                                                                                                                                             |
| <b>UniProt ID</b>          | O76027                                                                                                                                                                             |
| <b>Chromosome Location</b> | 1q21.2                                                                                                                                                                             |
| <b>Function</b>            | acetylcholine receptor activity; calcium ion binding; calcium-dependent phospholipid binding; phosphatidylserine binding; phospholipid binding; protein homodimerization activity; |

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