

## Recombinant Human ANXA6, His-tagged

**Cat. No.** ANXA6-27321TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Recombinant full length protein, corresponding to amino acids 1-673 of Human Annexin VI with an N terminal His tag. Predicted mwt: 78 kDa;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1-673 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>Annexin VI belongs to a family of calcium-dependent membrane and phospholipid binding proteins. Several members of the annexin family have been implicated in membrane-related events along exocytotic and endocytotic pathways. The annexin VI gene is approximately 60 kbp long and contains 26 exons. It encodes a protein of about 68 kDa that consists of eight 68-amino acid repeats separated by linking sequences of variable lengths. It is highly similar to human annexins I and II sequences, each of which contain four such repeats. Annexin VI has been implicated in mediating the endosome aggregation and vesicle fusion in secreting epithelia during exocytosis. Alternatively spliced transcript variants have been described.</p> |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | >90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, pH 8.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Sequences of amino acids</b> | <p>MGSSHHHHHH SSGLVPRGSH MAKPAQGAKY RGSIHDFPGFDPNQDAEALY</p> <p>TAMKGFGSDK EAILDIITSR SNRQRQEVCSYKSLYKDL IADLYELTG</p> <p>KFERLIVGLM RPPAYCDAKEIKDAISGIGT DEKCLIEILA SRTNEQMHQL</p> <p>VAAYKDAYERDLEADIIGDT SGHFQKMLVV LLQGTREEDD</p> <p>VVSEDLVQQDVQDLYEAGEL KWGTDEAQFI YILGNRSKQH</p> <p>LRLVFDEYLKTTGKPIEASI RGELSGDFEK LMLAVVKCIR</p> <p>STPEYFAERLFKAMKGLGTR DNTLIRIMVS RSELDMLDIR</p> <p>EIFRTKYEKSLYSMIKNDTS GEYKKTLLKL SGGDDDAAGQ</p> <p>FFPEAAQVAYQMWELSAVAR VELKGTVRPA NDFNPDADAK</p> <p>ALRKAMKGLGTDEDTIIDII THRSNVQRQQ IRQTFKSHFG</p> <p>RDLMTDLKSEISGDLARLIL GLMMPPAHYD AKQLKKAMEG</p> <p>AGTDEKALIEILATRTNAEI RAINEAYKED YHKSLEDALS</p> <p>SDTSGHFRRILISLATGHRE EGGENLDQAR EDAQVAEIL</p> <p>EIADTPSGDKTSLETRFMTI LCTRSYPHLR RVFQEFIKMT</p> <p>NYDVEHTIKKEMSGDVRDAF VAIVQSVKNK PLFFADKLYK</p> <p>SMKGAGTDEKTLTRIMVSRS EIDLLNIRRE FIEKYDKSLH</p> <p>QAIEGDTSGDFLKALLALCG GED</p> |
| <b>Sequence Similarities</b>    | Belongs to the annexin family. Contains 8 annexin repeats.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Full Length</b>              | Full L.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## GENE INFORMATION

|                            |                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | ANXA6 annexin A6 [ Homo sapiens ]                                                                                                         |
| <b>Official Symbol</b>     | ANXA6                                                                                                                                     |
| <b>Synonyms</b>            | ANXA6; annexin A6; ANX6;                                                                                                                  |
| <b>Gene ID</b>             | 309                                                                                                                                       |
| <b>mRNA Refseq</b>         | NM_001155                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_001146                                                                                                                                 |
| <b>MIM</b>                 | 114070                                                                                                                                    |
| <b>Uniprot ID</b>          | P08133                                                                                                                                    |
| <b>Chromosome Location</b> | 5q33.1                                                                                                                                    |
| <b>Pathway</b>             | Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Prostaglandin Synthesis and Regulation, organism-specific biosystem; |
| <b>Function</b>            | calcium ion binding; calcium-dependent phospholipid binding; protein binding;                                                             |

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