

## Recombinant Human Annexin A5, Biotin

**Cat. No.** ANXA5-2624H    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Human Annexin A5- Biotin is expressed in <i>E. coli</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>         | <p>Annexin 5 is a member of the annexin family of calcium-dependent phospholipid binding proteins. Annexin 5 is a phospholipase A2 and protein kinase C inhibitory protein with calcium channel activity and a potential role in cellular signal transduction, inflammation, growth and differentiation. In vitro studies have shown that Annexin 5 is a cellular protein which plays a role in the inhibition of blood coagulation by competing for phosphatidylserine binding sites with prothrombin. Through affinity assays Annexin 5 has been localized on cells that expressed phosphatidylserine on the cell surface, a feature found in apoptosis as well as other forms of cell death.</p> |
| <b>Purity</b>              | >98% pure as demonstrated by SDS-gel electrophoresis and reverse phase HPLC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Weight</b>    | 35.8 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Presentation</b>        | Solution containing 50 mM TRIS, 100 mM NaCl, 1% BSA, 0.02% Sodium Azide, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Biological Activity</b> | Annexin V exhibits anti-phospholipase activity and binds to phosphatidylserine (PS).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>         | Biotin labelling allows simple direct detection of PS by FACS analysis using fluorescence-labeled Streptavidin. Counterstaining by propidium iodide allows the discrimination of apoptotic cells.                                                                                                                                        |
| <b>Storage</b>             | Stable at 2°-8°C as indicated on the label. Do not freeze!                                                                                                                                                                                                                                                                               |
| <b>Conjugation</b>         | Biotin                                                                                                                                                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Name</b>           | <a href="#">ANXA5 annexin A5 [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | ANXA5; annexin A5; PP4; ANX5; ENX2; anchorin CII; endonexin II; lipocortin V; placental anticoagulant protein I; Annexin-5; Annexin V; Lipocortin V; Endonexin II; Calphobindin I; Placental anticoagulant protein I; Placental anticoagulant protein 4; Thromboplastin inhibitor; Vascular anticoagulant-alpha; VAC-alpha; CBP-I; PAP-I |
| <b>Gene ID</b>             | <a href="#">308</a>                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | <a href="#">NM_001154</a>                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>      | <a href="#">NP_001145</a>                                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>                 | <a href="#">131230</a>                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>          | P08758                                                                                                                                                                                                                                                                                                                                   |
| <b>Chromosome Location</b> | 4q27                                                                                                                                                                                                                                                                                                                                     |
| <b>Function</b>            | calcium ion binding; calcium-dependent phospholipid binding; eukaryotic cell surface                                                                                                                                                                                                                                                     |

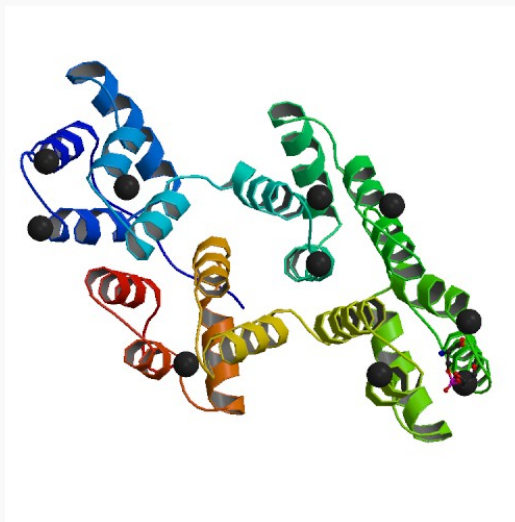
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binding; phospholipase inhibitor activity; protein binding; receptor tyrosine kinase binding

PDB rendering based  
on 1a8a.



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