

Recombinant Mouse Anxa1 Protein, His-tagged

Cat. No. Anxa1-7269M **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | Recombinant mouse Anxa1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. |
| Species | Mouse |
| Source | E.coli |
| ProteinLength | 1-346 |
| Description | Plays important roles in the innate immune response as effector of glucocorticoid-mediated responses and regulator of the inflammatory process. Has anti-inflammatory activity. Plays a role in glucocorticoid-mediated down-regulation of the early phase of the inflammatory response. Promotes resolution of inflammation and wound healing. Functions at least in part by activating the formyl peptide receptors and downstream signaling cascades. Promotes chemotaxis of granulocytes and monocytes via activation of the formyl peptide receptors. Contributes to the adaptive immune response by enhancing signaling cascades that are triggered by T-cell activation, regulates differentiation and proliferation of activated T-cells. Promotes the differentiation of T-cells into Th1 cells and negatively regulates differentiation into Th2 cells. Has no effect on unstimulated T-cells. Promotes rearrangement of the actin cytoskeleton, cell polarization and cell migration. Negatively regulates hormone exocytosis via activation of the formyl peptide receptors and reorganization of the actin cytoskeleton. Has high affinity for Ca ²⁺ and can bind up to eight Ca ²⁺ ions. Displays Ca ²⁺ -dependent binding to phospholipid membranes. Plays a role in the |

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formation of phagocytic cups and phagosomes. Plays a role in phagocytosis by mediating the Ca²⁺-dependent interaction between phagosomes and the actin cytoskeleton.

Form Liquid

Molecular Mass 41.1 kDa

AA Sequence

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MGSSHHHHHSSGLVPRGSHMGSMAMVSEFLKQARFLENQEYVQAVKSYKGG
PGSAVSPYPSFNVSSDVAALHKAIMVKGVDIATIIDILTKRTNAQRQQIKAAYLQENG
KPLDEVLRKALTGHLEEVVLAMLKTPAQFDADELRGAMKGLGTDEDTLIEILTTRSNE
QIREINRVYREELKRDLAKDITSDTSGDFRKALLALAKGDRQCQLSVNQDLADTDAR
ALYEAGERRKGTDVNVFTTILTSRSPHLLRRVFQNYGKYSQHDMNKALDLELKGDI
KCLTTIVKCATSTPAFFAEKLYEAMKGAGTRHKALIRIMVSRSEIDMNEIKVFYQKKYG
ISLCQAILDETKGDYKILVALCGGN
    
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Purity > 95 % by SDS-PAGE

Stability Shelf life: one year from despatch.

Storage Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.

Concentration 1.0 mg/mL (determined by Bradford assay)

Storage Buffer In Phosphate buffered saline (pH7.4) containing 20 % glycerol, 1 mM DTT.

GENE INFORMATION

Gene Name [Anxa1 annexin A1 \[Mus musculus \(house mouse\) \]](#)

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|------------------------|---|
| Official Symbol | Anxa1 |
| Synonyms | Anxa1; annexin A1; Lp; Anx; Lpc; Lpc1; Anx-1; Lpc-1; Anx-A1; C430014K04Rik; annexin A1; annexin I; annexin-1; calpactin II; calpactin-2; chromobindin-9; lipocortin 1; lipocortin I; p35; phospholipase A2 inhibitory protein |
| Gene ID | 16952 |
| mRNA Refseq | NM_010730 |
| Protein Refseq | NP_034860 |
| UniProt ID | P10107 |
| SDS-PAGE |  <p>15% SDS-PAGE (3ug)</p> |

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