

Recombinant Human annexin A1

Cat. No. ANXA1-504H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Annexin A1 protein was expressed in <i>E. coli</i> and purified by using conventional chromatography. MW=38.7kDa.
Species	Human
Source	E.coli
Description	Annexin A1, also known as Lipocortin I, belongs to a family of Ca(2+)-dependent phospholipid binding proteins that are preferentially located on the cytosolic face of the plasma membrane. It promotes membrane fusion and is also involved in exocytosis. Since Annexin A1 has phospholipase A2 inhibitory activity to bind from two to four calcium ions with high affinity, this protein may have potential anti-inflammatory activity. The detection of this protein by immunocytochemical means reportedly provides a simple, highly sensitive and specific assay for diagnosis of hairy cell leukemia.
Amino Acid Sequence	MAMVSEFLKQ AWFIEENEEQE YVQTVKSSKG GPGSAVSPYP TFNPSSDVAA LHKAIMVKGV DEATIIDILT KRNNAGRQQI KAAYLQETGK PLDETLKKAL TGHLEEVVLA LLKTPAQFDA DELRAAMKGL GTDEDTLIEI LASRTNKEIR DINRVYREEL KRDLAKDITS DTSGDFRNAL LSLAKGDRSE DFGVNEDLAD SDARALYEAG ERRKGTDVNV FNTILTTRSY PQLRRVFQKY TKYSKHD MNK VLDLELKGDI EKCLTAIVKC ATSKPAFFAE KLHQAMKGVG TRHKALIRIM VSRSEIDMND IKAFYQKMYG ISLCQAILDE TKG DY EKILV ALCGGN.

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From	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 100mM NaCl, 1mM DTT, 10% glycerol.
Purity	> 90% by SDS-PAGE.
Concentration	1mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	ANXA1 annexin A1 [Homo sapiens]
Synonyms	ANX1; annexin A1; LPC1; ANXA1; Annexin A1; Annexin-1; Annexin I; Lipocortin I; Calpactin II; Chromobindin-9; p35; Phospholipase A2 inhibitory protein; OTTHUMP00000021475; OTTHUMP00000021474; annexin A1; annexin I (lipocortin I)
Gene ID	301
mRNA Refseq	NM_000700
Protein Refseq	NP_000691
MIM	151690
UniProt ID	P04083
Chromosome Location	6p24-p23

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Pathway

Cytokine-cytokine receptor interaction; Hedgehog signaling pathway; TGF-beta signaling pathway

Function

calcium ion binding; calcium-dependent phospholipid binding; phospholipase A2 inhibitor activity; protein binding, bridging; receptor binding; structural molecule activity

PDB rendering based
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