

Recombinant Human annexin A1

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

SPECIFICATION

Product Overview

Recombinant human Annexin A1 protein was expressed in *E.coli* 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 KRNNQRQQI KAYLQETGK PLDETLKKAL
TGHLEEVVLA LLKTPAQFDA DELRAAMKGL GTDEDTLIEI LASRTNKEIR
DINRVYREEL KRDLAKDITS DTSGDFRNAL LSLAKGDRSE DFGVNEDLAD
SDARALYEAG ERRKGTDVNV FNTILTTRS Y 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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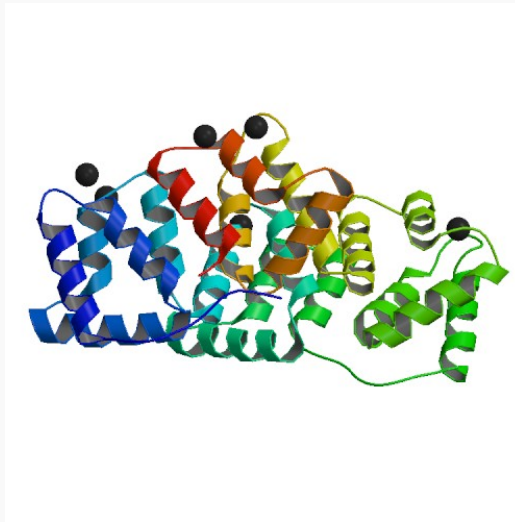
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Pathway Cytokine-cytokine receptor interaction; Hedgehog signaling pathway; TGF-beta signaling pathway

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

PDB rendering based on 1ain



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