

Recombinant Human ANXA1 protein

Cat. No. ANXA1-9159H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ANXA1 (1-346aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-346 a.a.
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.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 1mM DTT, 10% glycerol.
Molecular Mass	38.7 kDa (346aa), confirmed by MALDI-TOF.
AA Sequence	MAMVSEFLKQ AWFIEENEEQE YVQTVKSSKG GPGSAVSPYP TFPSSDVAA LHKAIMVKGV DEATIIDILT KRNNQRQQI KAAYLQETGKPLDELTKKAL TGHLEEVVLA LLKTPAQFDA DELRAAMKGL GTDEDTLIEI LASRTNKEIR

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DINRVYREEL KRDLAKDITS DTSGDFRNALLSLAKGDRSE DFGVNEDLAD
 SDARALYEAG ERRKGTDVNV FNTILTTRSYPQLRRVFQKY TKYSKHD MNK
 VLDLELKGDI EKCLTAIVKCATSKPAFFAE KLHQAMKGVG TRHKALIRIM
 VSRSEIDMND IKAFYQKMYG ISLCQAILDE TKG DY EKILV ALCGGN

Purity > 90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ANXA1 annexin A1 \[Homo sapiens \]](#)

Official Symbol ANXA1

Synonyms ANX1; LPC1; annexin A1; annexin I (lipocortin I); annexin-1; calpactin II; calpactin-2; chromobindin-9; phospholipase A2 inhibitory protein

Gene ID [301](#)

mRNA Refseq [NM_000700](#)

Protein Refseq [NP_000691](#)

MIM [151690](#)

UniProt ID P04083

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Chromosome Location	9q21.13
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Formyl peptide receptors bind formyl peptides and many other ligands, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem
Function	annealing helicase activity; calcium ion binding; calcium-dependent phospholipid binding

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