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 AWFIENEEQE YVQTVKSSKG GPGSAVSPYP TFNPSSDVAA LHKAIMVKGV DEATIIDILT KRNNAQRQQI KAAYLQETGKPLDETLKKAL TGHLEEVVLA LLKTPAQFDA DELRAAMKGL GTDEDTLIEI LASRTNKEIR

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	DINRVYREEL KRDLAKDITS DTSGDFRNALLSLAKGDRSE DFGVNEDLAD SDARALYEAG ERRKGTDVNV FNTILTTRSY PQLRRVFQKY TKYSKHDMNK VLDLELKGDI EKCLTAIVKCATSKPAFFAE KLHQAMKGVG TRHKALIRIM VSRSEIDMND IKAFYQKMYG ISLCQAILDE TKGDYEKILV 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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