

Recombinant Full Length Human ANK1 Protein, GST-tagged

Cat. No. ANK1-1012HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ANK1 full-length ORF (AAH30957, 1 a.a. - 155 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	155 amino acids

Description

Ankyrins are a family of proteins that link the integral membrane proteins to the underlying spectrin-actin cytoskeleton and play key roles in activities such as cell motility, activation, proliferation, contact and the maintenance of specialized membrane domains. Multiple isoforms of ankyrin with different affinities for various target proteins are expressed in a tissue-specific, developmentally regulated manner. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. Ankyrin 1, the prototype of this family, was first discovered in the erythrocytes, but since has also been found in brain and muscles. Mutations in erythrocytic ankyrin 1 have been associated in approximately half of all patients with hereditary spherocytosis. Complex patterns of alternative splicing in the regulatory domain, giving rise to different isoforms of ankyrin 1 have been described. Truncated muscle-specific isoforms of ankyrin 1 resulting from usage of an alternate promoter have also been identified. [provided by RefSeq, Dec 2008]

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Molecular Mass	42.79 kDa
AA Sequence	MWTFVTQLLV TLVLLSFFLV SCQNVMHIVR GSLCFVLKHI HQELDKELGE SEDLSDDDEET ISTRVRRRV FLKGNEFQNI PGEQVTEEQF TDEQGNIVTK KIIRKVVRQI DLSSADAAQE HEEVELRGS LQPDLEGRK GAQIVKRASL KRGKQ
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ANK1 ankyrin 1, erythrocytic [Homo sapiens]
Official Symbol	ANK1
Synonyms	ANK1; ankyrin 1, erythrocytic; ANK; ankyrin-1; SPH1; ANK-1; ankyrin-R; erythrocyte ankyrin; SPH2
Gene ID	286
mRNA Refseq	NM_000037
Protein Refseq	NP_000028
MIM	612641

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UniProt ID

P16157

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