

Recombinant Human ANK1 cell lysate

Cat. No. ANK1-75HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

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.

Size 100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

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Applications Western Blot;

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](#)

UniProt ID [P16157](#)

Chromosome Location 8p21.1-p11.2

Pathway Axon guidance, organism-specific biosystem; CHL1 interactions, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Interaction between L1 and Ankyrins, organism-specific biosystem; L1CAM interactions, organism-specific biosystem; Neurofascin interactions, organism-specific biosystem; NrCAM interactions, organism-specific biosystem;

Function cytoskeletal adaptor activity; cytoskeletal adaptor activity; enzyme binding; protein

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binding; spectrin binding; spectrin binding; structural constituent of cytoskeleton;
structural molecule activity;

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