

Recombinant Human ANK1 cell lysate

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

SPECIFICATION

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)

Applications

Western Blot;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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