



Mouse anti-Human ANK1 polyclonal antibody (DPAB-DC1437)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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.

Immunogen

ANK1 (AAH30957, 1 a.a. ~ 155 a.a) full-length recombinant protein with GST tag. The sequence is
 MWTFVTQLLVTLVLLSFFLVSCQNMHIVRGSLCFVLKHHQELDKELGESEDLSDDDEET
 ISTRVVRVRVFLKGNEFQNPGEQVTEEQFTDEQGNIVTKIIRKVVRQIDLSSADAAQE
 HEEVELRGSLQPDLEGRKGAQIVKRASLKRKQ

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

Size

50 µl

Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ANK1 ankyrin 1, erythrocytic [Homo sapiens (human)]
Official Symbol	ANK1
Synonyms	ANK1; ankyrin 1, erythrocytic; ANK; SPH1; SPH2; ankyrin-1; ANK-1; ankyrin-R; erythrocyte ankyrin;
Entrez Gene ID	286
Protein Refseq	NP_000028
UniProt ID	P16157
Chromosome Location	8p11.1
Pathway	Axon guidance; Developmental Biology; L1CAM interactions; NrCAM interactions
Function	ATPase binding; cytoskeletal adaptor activity; enzyme binding; protein binding