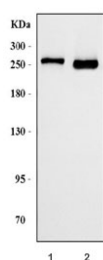


Ankyrin-1 Antibody / ANK1 / Erythrocyte [clone 9I6C3] (RQ7409)

Catalog No.	Formulation	Size
RQ7409	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	9I6C3
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P16157
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Ankyrin-1 antibody is available for research use only.



Western blot testing of human 1) HEL and 2) K562 cell lysate with Ankyrin-1 antibody. Predicted molecular weight ~206 kDa but can be observed at up to 246 kDa.

Description

Ankyrin 1, erythrocytic, also known as ANK1, is a protein that in humans is encoded by the ANK1 gene. 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.

Application Notes

Optimal dilution of the Ankyrin-1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids N1300-Q1844) was used as the immunogen for the Ankyrin-1 antibody.

Storage

After reconstitution, the Ankyrin-1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.