

Datasheet for ABIN2775478

anti-Erythrocyte Ankyrin antibody (C-Term)[Go to Product page](#)**4** Images

Overview

Quantity:	100 µL
Target:	Erythrocyte Ankyrin (ANK1)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Horse, Rabbit, Cow, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Erythrocyte Ankyrin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human ANK1
Sequence:	VVRQIDLSSA DAAQEHEEVE LRGSGLQPD L IEGRKGAQIV KRASLKRGKQ
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against ANK1. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	Erythrocyte Ankyrin (ANK1)
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Target Details

Alternative Name:	ANK1 (ANK1 Products)
Background:	<p>Ankyrins are a family of proteins that are believed to 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. 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, however, the precise functions of the various isoforms are not known. Ankyrins are a family of proteins that are believed to 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, however, the precise functions of the various isoforms are not known. Alternative polyadenylation accounting for the different sized erythrocytic ankyrin 1 mRNAs, has also been reported. Truncated muscle-specific isoforms of ankyrin 1 resulting from usage of an alternate promoter have also been identified.</p> <p>Alias Symbols: ANK, SPH1, SPH2</p> <p>Protein Interaction Partner: UBC, SPTA1, SUMO1, CD44, TGFBR1, SPTBN1, KCTD6, OBSCN, CUL3, NEDD8, SPTB, BLOC1S6, NFASC, NBPF3, TIAM1, L1CAM, TTN, SPTAN1, RHAG, EPB42, ITPR3, SLC4A1, SLC4A3,</p> <p>Protein Size: 155</p>
Molecular Weight:	18 kDa
Gene ID:	286
NCBI Accession:	NM_020478 , NP_065211
UniProt:	Q53ER1

Target Details

Pathways: [Synaptic Membrane](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 155 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

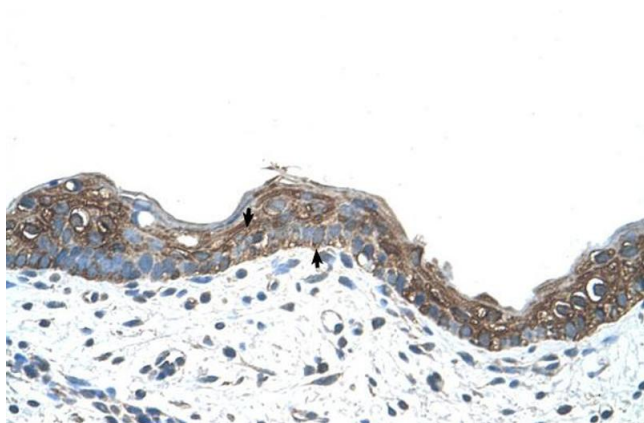
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

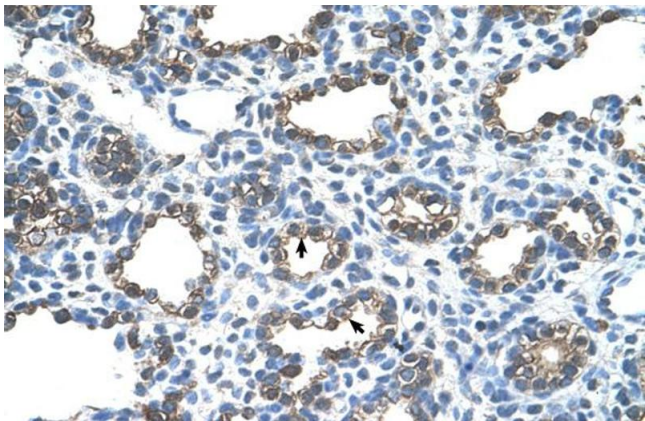
Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Immunohistochemistry

Image 1. Human Skin



Immunohistochemistry

Image 2. Human Lung



Western Blotting

Image 3. WB Suggested Anti-ANK1 Antibody Titration:
1.25ug/ml Positive Control: Jurkat cell lysate

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2775478.