

Datasheet for ABIN967633

anti-ANK2 antibody



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Overview

Quantity:	0.1 mg
Target:	ANK2
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ANK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Fluorescence Microscopy (FM)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Human Ankyrin B Spectrin Binding Domain Peptide
Clone:	2-20
Isotype:	IgG1
Cross-Reactivity:	Rat (Rattus)
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	ANK2
Alternative Name:	Ankyrin B (ANK2 Products)
Background:	<p>Ankyrins are a family of proteins which were first discovered in erythrocytes and shown to bind to spectrin, a primary component of the cytoskeletal architecture. They have since been shown to be expressed at very high levels in the vertebrate brain and are also found in other cell types. Ankyrins function by acting as adaptors to link integral membrane proteins, including cell adhesion and ion channel molecules to the cytoskeleton. The structure of ankyrin consists of three domains, two highly conserved N-terminal and one C-terminal variable domain. The conserved regions contain a membrane-binding domain of ~89-95 kDa and a spectrin-binding domain of ~62 kDa, while the variable region has pre-mRNA alternative splice sites. Two ankyrins have been extensively characterized: ankyrin R is the product of the ANK1 gene and is primarily expressed in the brain, although alternatively spliced forms are found in erythrocytes, ankyrin B is the product of the ANK2 gene, located on a different chromosome from ANK1, and is primarily expressed in neonatal and adult brain but is also found in heart, lymphocytes and platelets. Studies done on ankyrinB (-/-) knockout mice, which die by postnatal day 21, have demonstrated a link between the L1 cell adhesion molecule and ankyrin B in premyelinated axons. Isoforms of ankyrin B have been reported to be detectable ranging from approximately 440, 220, 150 and 110 kDa in western blot analysis, depending on the tissue-type of origin. This antibody is routinely tested by western blot analysis.</p>
Molecular Weight:	110-440 kDa
Pathways:	Cell-Cell Junction Organization

Application Details

Application Notes:	Neonatal rat brain membranes are suggested for use as the positive control.
Comment:	Related Products: ABIN967389, ABIN968545, ABIN968546
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤ 0.09 % sodium azide.
Preservative:	Sodium azide

Handling

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

Storage: 4 °C

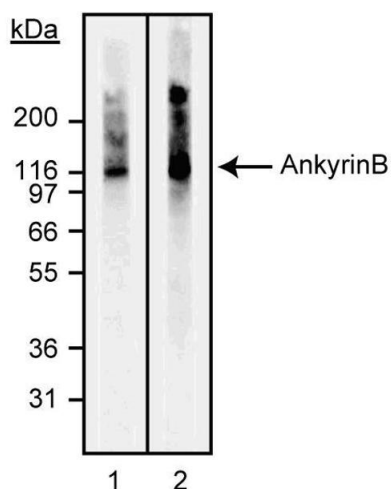
Storage Comment: Store undiluted at 4° C.

Publications

Product cited in: Helisalmi, Väkevä, Hiltunen, Soininen: "Flanking markers of cystatin c (CST3) gene do not show association with Alzheimer's disease." in: **Dementia and geriatric cognitive disorders**, Vol. 27, Issue 4, pp. 318-21, (2009) ([PubMed](#)).

Rehman, Fought, Solomon: "N-acetylcysteine effect on serum creatinine and cystatin C levels in CKD patients." in: **Clinical journal of the American Society of Nephrology : CJASN**, Vol. 3, Issue 6, pp. 1610-4, (2008) ([PubMed](#)).

Validation report #028758 for Immunohistochemistry (IHC)



Western Blotting

Image 1. Western blot analysis of Ankyrin B. Rat brain lysates were probed with 2 µg/ml (lane 1) or 5 µg/ml (lane 2) of the mouse anti-ankyrin B antibody (clone 2.20). Ankyrin B isoforms can be observed at ~150 and ~220 kDa, respectively.

