

Ankyrin B Monoclonal Antibody (2.2)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Insect, Fruit fly, Hamster, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	2.2
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the human ankyrin B protein
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533115

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-1 µg/mL	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:100-1:500	2 Publications
ELISA (ELISA)	Assay-dependent	-

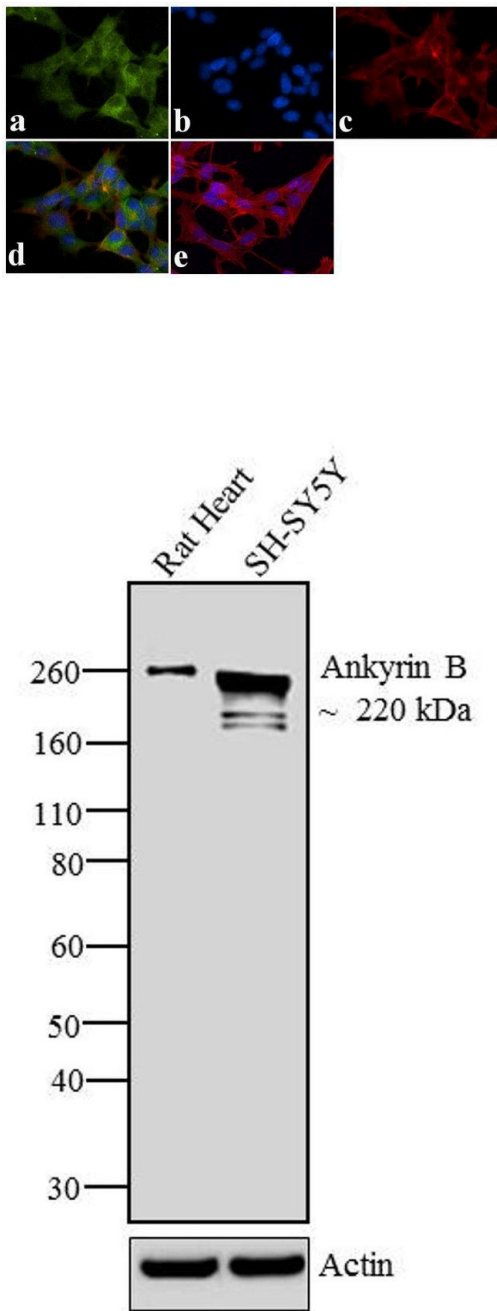
Product Images For Ankyrin B Monoclonal Antibody (2.2)

Ankyrin B Antibody (33-3700) in ICC/IF

Immunofluorescent analysis of Ankyrin B was done on 70% confluent log phase SHSY5Y cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Ankyrin B Mouse monoclonal Antibody (Product # 33-3700) at 1 µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Rabbit Anti-Mouse IgG Secondary Antibody (Product # A-11059) at a dilution of 1:400 for 30 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor 594 Phalloidin (Product # A12381). Panel d is a merged image showing cytoplasmic localization. Panel e shows no primary antibody control. The images were captured at 20X magnification.

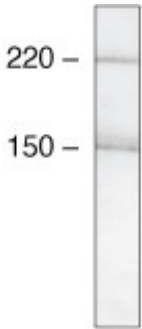
Ankyrin B Antibody (33-3700) in WB

Western blot analysis of Ankyrin B was performed by loading 20 µg of Rat Heart (lane1) and SH-SK5Y (lane2) lysate using Novex®NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and proteins were transferred to a PVDF membrane with overnight wet transfer setup at 4°C and blocked with 5% skim milk for 1 hour at room temperature. Ankyrin B was detected at ~ 220 kDa using Ankyrin B Mouse Monoclonal Antibody (Product # 33-3700) at 0.5-1 µg/mL in 5% skim milk for 3 hour at room temperature on a rocking platform. Goat Anti-Mouse - HRP Secondary Antibody (Product # 62-6520) at 1:4000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



Ankyrin B Antibody (33-3700) in WB

Western blot analysis of rat brain homogenates using Ms anti-Ankyrin B (Product # 33-3700).



Western blot analysis of rat brain homogenates using Ms anti-Ankyrin B (Cat. no. 33-3700).

📖 5 References

Western Blot (1)

<p>Cardiovascular research</p> <p>Coupling of the Na⁺/K⁺-ATPase to Ankyrin B controls Na⁺/Ca²⁺ exchanger activity in cardiomyocytes.</p> <p>"33-3700 was used in Western Blot to investigate the role of NKA binding to AnkB in cardiomyocytes."</p> <p>Authors: Skogestad J,Aronsen JM,Tovsrud N,Wanichawan P,Hougen K,Stokke MK,Carlson CR,Sjaastad I,Sejersted OM,Swift F</p>	<p>Year 2020</p> <p>Species Rat</p> <p>Dilution 1:1000</p>
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Immunohistochemistry (1)

<p>Nature communications</p> <p>PERM1 interacts with the MICOS-MIB complex to connect the mitochondria and sarcolemma via ankyrin B.</p> <p>"Published figure using Ankyrin B monoclonal antibody (Product # 33-3700) in Immunohistochemistry"</p> <p>Authors: Bock T,Türk C,Aravamudhan S,Keufgens L,Bloch W,Rozsivalova DH,Romanello V,Nogara L,Blaauw B,Trifunovic A,Braun T,Krüger M</p>	<p>Year 2021</p> <p>Species Mouse</p>
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Immunohistochemistry (Paraffin) (1)

<p>PloS one</p> <p>Roles of specific membrane lipid domains in EGF receptor activation and cell adhesion molecule stabilization in a developing olfactory system.</p> <p>"33-3700 was used in immunohistochemistry - paraffin section to review factors that contribute to the development of the olfactory system of Manduca sexta"</p> <p>Authors: Gibson NJ,Tolbert LP,Oland LA</p>	<p>Year 2009</p>
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Immunocytochemistry (2)

<p>PloS one</p> <p>Activation of glial FGFRs is essential in glial migration, proliferation, and survival and in glia-neuron signaling during olfactory system development.</p> <p>"33-3700 was used in immunocytochemistry to investigate the role of Fibroblast Growth Factor receptors in glial migration, proliferation, and survival."</p> <p>Authors: Gibson NJ,Tolbert LP,Oland LA</p>	<p>Year 2012</p> <p>Species Insect</p>
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