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Anti-Ankyrin R Antibody [S388A-10]

Mouse Anti-Human Ankyrin R Monoclonal IgG2B
Catalog No. SMC-487



Discovery through partnership | Excellence through quality

Overview

Product Name

Ankyrin R Antibody

Description

Mouse Anti-Human Ankyrin R Monoclonal IgG2B

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, ICC/IF

Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Human

Immunogen

Fusion protein amino acids 1-1881 (full-length) of human Ankyrin-R

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.1% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S388A-10

Isotype

IgG2b

Specificity

Detects ~200kDa. Does not cross-react with Ankyrin-B or Ankyrin-G.

Cite This Product

Mouse Anti-Human Ankyrin R Monoclonal, Clone S388A-10 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-487)

Certificate Of Analysis

A 1:100 dilution of SMC-487 was sufficient for detection of Ankyrin R in 20 µg of mouse brain lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

Ankyrin-R Antibody, Ankyrin-1 Antibody, Erythrocyte Ankyrin Antibody, ANK-1 Antibody, ANK Antibody, rCG_43073 Antibody

Research Areas

Blood, Cardiovascular System, Cell Signaling, Cell Structure, Membrane Markers, Neuroscience, Scaffolds

Cellular Localization

Cytoplasm, Cytoskeleton, M line, myofibril, Sarcomere

Accession Number

NP_000028.3

Gene ID

286

Swiss Prot

P16157

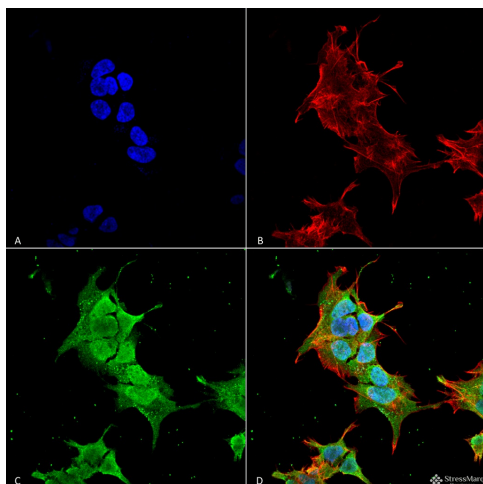
Scientific Background

Ankyrins are a family of adaptor proteins that mediate the attachment of integral membrane proteins to the spectrin-actin based membrane skeleton (1). Ankyrins have binding sites for the beta subunit of spectrin and at least 12 families of integral membrane proteins. This linkage is required to maintain the integrity of the plasma membranes and to anchor specific ion channels, ion exchangers and ion transporters in the plasma membrane. Ankyrin R, or Ank1, was first discovered in erythrocytes, but has since also been located in the brain and muscles. Mutations are associated with hereditary spherocytosis and alzheimer's disease (2).

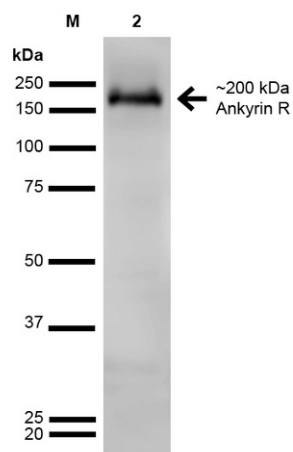
References

1. Bennett V., Baines A.J. (2001) *Physiol. Rev.* 81 (3): 135392.
 2. Genes and mapped phenotypes. (n.d.). Retrieved April 21, 2015, from <http://www.ncbi.nlm.nih.gov/gene/286>
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Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Ankyrin R Monoclonal Antibody, Clone S388A-10 (SMC-487). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Ankyrin R Monoclonal Antibody (SMC-487) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000; 1:5000 for 60 min RT, 5 min RT. Localization: Cytoplasm, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Ankyrin R Antibody (D) Composite.



Western Blot analysis of Rat Brain showing detection of ~200 kDa Ankyrin-R protein using Mouse Anti-Ankyrin-R Monoclonal Antibody, Clone S388A-10 (SMC-487). Lane 1: MW Ladder. Lane 2: Rat Brain. Load: 20 μ g. Block: 2% GE Healthcare Blocker for 1 hour at RT. Primary Antibody: Mouse Anti-Ankyrin-R Monoclonal Antibody (SMC-487) at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: ~200 kDa.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.