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Datasheet for ABIN2485667 anti-SPTBN4 antibody (AA 1621-1832) (Atto 594)

3 Images



Overview

| Quantity: | 100 µg |
|----------------------|--|
| Target: | SPTBN4 |
| Binding Specificity: | AA 1621-1832 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This SPTBN4 antibody is conjugated to Atto 594 |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF) |

Product Details

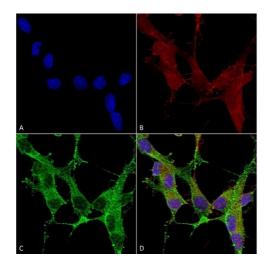
| Immunogen: | Fusion protein amino acids 1621-1832 (C-terminal repeats 14 to 15) of human Beta4-spectrin |
|-------------------|--|
| Clone: | S393-2 |
| Isotype: | lgG1 |
| Specificity: | Detects ~>200 kDa. Does not cross react with other Beta-spectrins |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Protein G Purified |
| Target Details | |
| Target: | SPTBN4 |

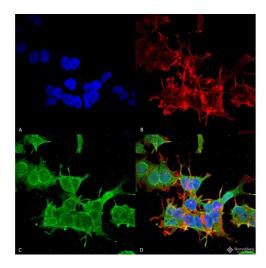
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| Alternative Name: | beta 4 Spectrin (SPTBN4 Products) |
|---------------------|--|
| Background: | Spectrin is the major constituent of the cytoskeletal network underlying the erthrocyte plasma membrane and determines cell shape, arrangement of transmembrane proteins and |
| | organization of organelles. It is expressed at very low levels in many tissues, with the strongest |
| | expression in the cerebellum, spinal cord, stomach, pituitary gland, liver, pancreas, salivary |
| | gland, kidney, bladder and heart (1). Spectrin beta 4 is a non-erythrocyte member, and is |
| | expressed in the brain and pancreatic islets and localisted to the nuclear matrix, cytoplasmic |
| | vesicles and PML nuclear bodies. Beta4 spectrins are also essential for membrane stability and |
| | the molecular organization of the nodes of Ranvier (2). |
| Gene ID: | 57731 |
| NCBI Accession: | NP_066022 |
| UniProt: | Q9H254 |
| Pathways: | Sensory Perception of Sound, Regulation of Actin Filament Polymerization, Maintenance of |
| | Protein Location |
| Application Details | |
| Application Notes: | • WB (1:1000) |
| | optimal dilutions for assays should be determined by the user. |
| Comment: | A 1:100 dilution of ABIN2485667 was sufficient for detection of Beta 4 Spectrin in 20 μg of |
| | mouse brain lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the |
| | secondary antibody. |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | PBS pH 7.4, 50 % glycerol, 0.1 % sodium azide, Storage buffer may change when conjugated |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |
| | should be handled by trained staff only. |
| Storage: | 4 °C |

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Images





Immunocytochemistry

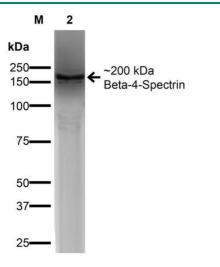
Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-beta 4 Spectrin Monoclonal Antibody, Clone S393-2 (ABIN2485667). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-beta 4 Spectrin Monoclonal Antibody (ABIN2485667) at 1:100 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) beta 4 Spectrin Antibody (D) Composite.

Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-beta 4 Spectrin Monoclonal Antibody, Clone S393-2 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-beta 4 Spectrin Monoclonal Antibody 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. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) beta 4 Spectrin Antibody (D) Composite.

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Images



Western Blotting

Image 3. Western Blot analysis of COS-Beta-4-Spectrin-His showing detection of ~ 200 kDa Beta-4-Spectrin protein using Mouse Anti-Beta-4-Spectrin Monoclonal Antibody, Clone S393-2 . Lane 1: MW Ladder. Lane 2: COS-Beta-4-Spectrin-His. Load: 15 µg. Block: 2% GE Healthcare Blocker for 1 hour at RT. Primary Antibody: Mouse Anti-Beta-4-Spectrin Monoclonal Antibody 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.

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