

## Datasheet

### SPTBN4 monoclonal antibody, clone S393-2 (FITC)

**Catalog Number:** MAB17113

**Regulation Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against partial recombinant human SPTBN4.

**Clone Name:** S393-2

**Immunogen:** Recombinant protein corresponding to amino acids 1621-1832 at C-terminus of human SPTBN4.

**Host:** Mouse

**Reactivity:** Human

**Applications:** ICC, IF, IHC-P, WB  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Form:** Liquid

**Conjugation:** FITC

**Purification:** Protein G purification

**Isotype:** IgG1

**Recommend Usage:** Immunocytochemistry  
Immunofluorescence  
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)  
Western Blot (1:1000)  
The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide).

**Storage Instruction:** Store at -20°C.

**Entrez GeneID:** 57731

**Gene Symbol:** SPTBN4

**Gene Alias:** KIAA1642, QV, SPNB4, SPTBN3

**Gene Summary:** Spectrin is an actin crosslinking and molecular scaffold protein that links the plasma membrane to the actin cytoskeleton, and functions in the determination of cell shape, arrangement of transmembrane proteins, and organization of organelles. It is composed of two antiparallel dimers of alpha- and beta- subunits. This gene is one member of a family of beta-spectrin genes. The encoded protein localizes to the nuclear matrix, PML nuclear bodies, and cytoplasmic vesicles. A highly similar gene in the mouse is required for localization of specific membrane proteins in polarized regions of neurons. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

#### References:

1. BetaIV spectrins are essential for membrane stability and the molecular organization of nodes of Ranvier. Yang Y, Lacas-Gervais S, Morest DK, Solimena M, Rasband MN. J Neurosci. 2004 Aug 18;24(33):7230-40.