

## Recombinant Spectrin beta III (SPTBN2) Antibody

Mouse Monoclonal Antibody [Clone rSPTBN2/1778]

| Catalog No       | Format  | Size   |
|------------------|---|--------|
| 6712-MSM10-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 6712-MSM10-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 6712-MSM10-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

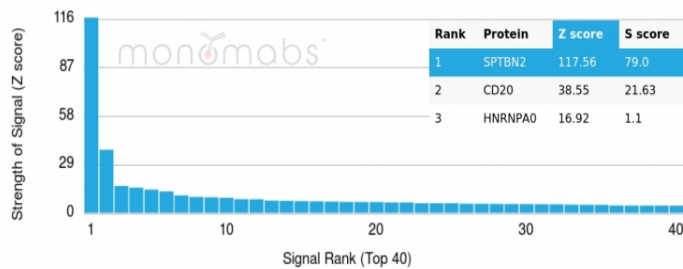
| Applications      | Tested Dillution | Note |
|-------------------|------------------|------|
| Western Blot (WB) | 2-4ug/ml         |      |

### Product Details

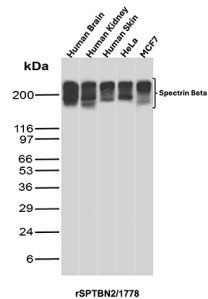
|                               |  |
|-------------------------------|--|
| <b>Clone</b>                  | rSPTBN2/1778   |
| <b>Gene Name</b>              | SPTBN2   |
| <b>Immunogen</b>              | Recombinant fragment (around aa356-475) of human SPTBN2 protein (exact sequence is proprietary)                  |
| <b>Host</b>                   | Mouse  |
| <b>Clonality</b>              | Monoclonal   |
| <b>Isotype / Light Chain</b>  | IgG1 / Kappa   |
| <b>Mol. Weight of Antigen</b> | 246kDa   |
| <b>Cellular Localization</b>  | Cell cortex, Cytoplasm, Cytoskeleton   |
| <b>Species Reactivity</b>     | Human  |
| <b>Positive Control</b>       | HeLa or PC-3 cells. Human brain, PANC-1, pancreas or liver tissues (IHC). Human Kidney, Human Skin, HeLa or MCF7 |

\*Optimal dilution for a specific application should be determined.

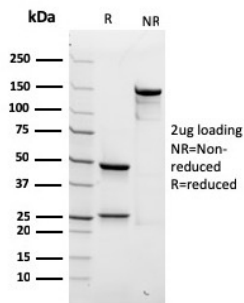
### Product Images for Recombinant Spectrin beta III (SPTBN2) Antibody



Analysis of Protein Array containing more than 19,000 full-length human proteins using SPTBN2 Monospecific Recombinant Mouse Monoclonal Antibody (rSPTBN2/1778). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Western Blot Analysis of Human Brain, Human Kidney, Human Skin, HeLa and MCF7 lysates using SPTBN2 Recombinant Mouse Monoclonal Antibody (rSPTBN2/1778).



SDS-PAGE Analysis of Purified SPTBN2 Recombinant Mouse Monoclonal Antibody (rSPTBN2/1778). Confirmation of Purity and Integrity of Antibody.

### Specificity & Comments

Spectrin is an actin binding protein that is a major component of the plasma membrane skeleton. Spectrins function as membrane organizers and stabilizers by forming dimers, tetramers and higher polymers. Vertebrate spectrins have two alpha-subunits (alpha-I/alpha-II) four beta-subunits (beta-I-beta-IV) and a beta-H subunit creating diversity and specialization of function. Spectrin and spectrin are present in erythrocytes, whereas spectrin II (also designated fodrin ) and spectrin I (also designated fodrin ) are present in other somatic cells. The spectrin tetramers in erythrocytes act as barriers to lateral diffusion, but spectrin dimers seem to lack this function. Spectrin III is highly homologous to both spectrin I and spectrin II. Spectrin III is highly expressed in brain, kidney, pancreas and liver, and at lower levels in lung and placenta. Spectrin beta 3 is primarily expressed in nervous tissues with highest expression levels in the cerebellum, where it is found in Purkinje cell soma and dendrites.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Developmental Biology, Immunology, Signal Transduction