

## 36-3206: Anti-Spectrin beta III (SPTBN2) Monoclonal Antibody(Clone: SPTBN2/2979R)

|                                |   |
|--------------------------------|---|
| <b>Clonality :</b>             | Monoclonal  |
| <b>Clone Name :</b>            | SPTBN2/2979R  |
| <b>Application :</b>           | WB,IHC  |
| <b>Reactivity :</b>            | Human   |
| <b>Gene :</b>                  | SPTBN2  |
| <b>Gene ID :</b>               | 6712  |
| <b>Uniprot ID :</b>            | O15020  |
| <b>Alternative Name :</b>      | Beta III spectrin; SCA5; Spectrin beta chain brain 2; Spectrin beta non-erythrocytic 2; Spectrin non-erythroid beta chain 2; Spinocerebellar ataxia 5; SPTBN2 |
| <b>Isotype :</b>               | Rabbit IgG  |
| <b>Immunogen Information :</b> | Recombinant fragment (around aa356-475) of human SPTBN2 protein (exact sequence is proprietary)   |

### Description

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 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.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 20 µg / 100 µg  |
| <b>Content :</b>           | 200 µg/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. |
| <b>Storage condition :</b> | 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.                               |

### Application Note

Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

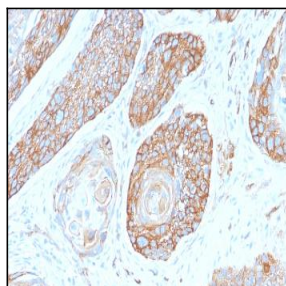


Fig. 1: Formalin-fixed, paraffin-embedded human Pancreas stained with Spectrin Beta 3 Rabbit Monoclonal Antibody (SPTBN2/2979R).

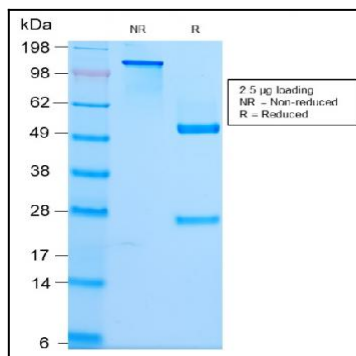


Fig. 2: SDS-PAGE Analysis Purified Spectrin Beta 3 Rabbit Monoclonal Antibody (SPTBN2/2979R). Confirmation of Purity and Integrity of Antibody.

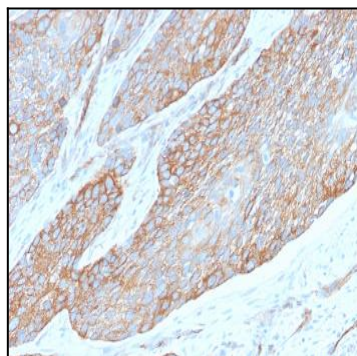


Fig. 3: Formalin-fixed, paraffin-embedded human Pancreas stained with Spectrin Beta 3 Rabbit Monoclonal Antibody (SPTBN2/2979R).

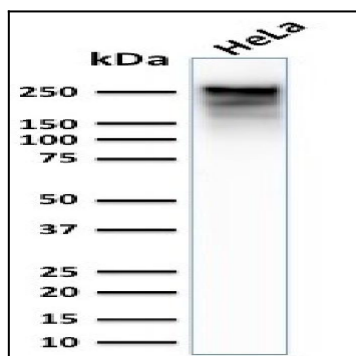


Fig. 4: Western Blot Analysis of Human HeLa cell lysate using Spectrin Beta 3 Rabbit Monoclonal Antibody (SPTBN2/2979R).

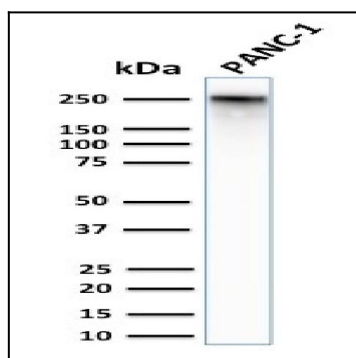


Fig. 5: Western Blot Analysis of Human PANC-1 cell lysates using Spectrin Beta 3 Rabbit Monoclonal Antibody (SPTBN2/2979R).