



## Cat nr AE00290

## Product Datasheet

Recombinant Mouse Antibody, clone rSPTBN2/1778 to:

### SPTBN2, Beta-III spectrin

Spectrin beta chain, non-erythrocytic 2; Spinocerebellar ataxia 5 protein; KIAA0302; SCA5; SCAR14; GTRAP41

Cellular localization Cytoskeleton

Official Symbol (Gene) SPTBN2

GenelD 6712

SwissProt O15020

Confirmed Applications WB, PA

Positive controls HeLa

Aeonian Rating© 92

Purification  By Protein G from bioreactor concentrate

Formulation  200ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20ug or 100ug)  
 1mg IgG/ml in PBS (100ug or contact us for quotation)

Amount  20ug  100ug

Isotype Mouse IgG1, kappa

Confirmed species reactivity Human

Immunogen Recombinant fragment around aa 356-475 of human SPTBN2 protein (exact sequence is proprietary)

Epitope Within aa 356-475 region

Storage instructions Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.

Expiration Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.

Warranty This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.

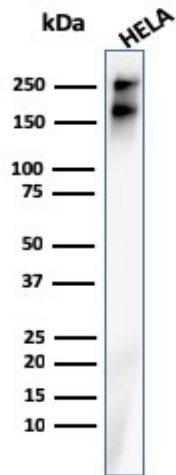
Liability This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance see next page

**Product data:**

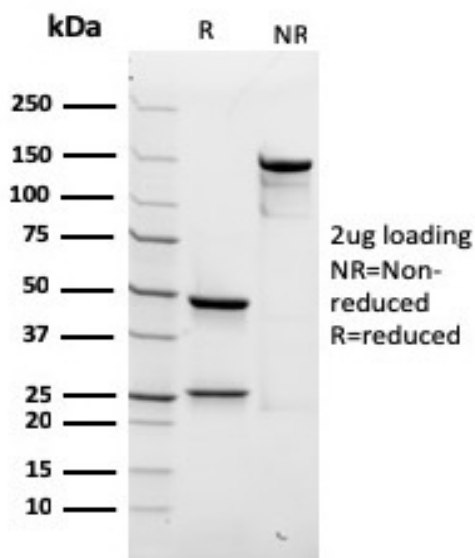
**Western Blot (WB):**

This product was successfully used to stain approx. 170+250kDa bands in lysates of cell line HeLa. Recommended concentration: 1-3ug/ml



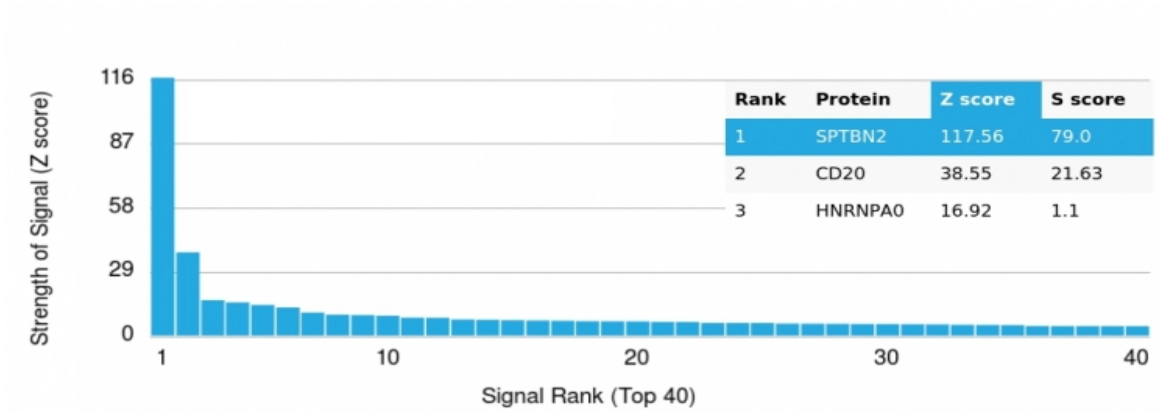
Western Blot of HeLa lysate (30ug) stained with SPTBN2 Mouse Recombinant Antibody AE00290 at 1ug/ml (1h at ambient temp). ECL staining by HRP.

**SDS-PAGE Analysis of Purified SPTBN2 Mouse Recombinant Antibody AE00290. Confirmation of Purity and Integrity of Antibody.**



Integrity of the purified antibody AE00290 under non-reduced and reduced conditions, showing intact IgG at around 150kDa (NR) and intact heavy and light chains at 48kDa and 26kDa resp. (R).

Specificity and selectivity of AE00290 to SPTBN2 were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search against H. sapiens revealed the following closely related proteins: SPTB and SPTBN1. SPTB was part of the array used and showed no cross-reactivity signals.



Cross-reactivity assessment of SPTBN2 Mouse Recombinant Antibody AE00290 (1ug/ml) on CDI's Protein Array containing more than 19,000 full-length human proteins.

The Z-score represents the strength of a signal that an antibody (through a fluorophore-tagged secondary reagent) produces when binding to a particular protein on the array. Z-scores are in units of standard deviations (SD's) above the mean value of all signals generated on that array. When Z-scores are arranged in descending order, the difference between two successive values will be the S-score for the first. Thus, the S-score represents the relative specificity of the antibody to its intended target. An antibody is considered specific to its intended target, when it has an S-score of at least 2.5. For example, if an antibody binds to intended protein X with a Z-score of 43 and to the cross-reacting protein Y with a next Z-score of 14, then the S-score for the antibody to intended target X equals 29 (43-14).