

Datasheet for ABIN6940644
anti-SPTA1 antibody (AA 356-475)[Go to Product page](#)

6 Images

Overview

| | |
|----------------------|--|
| Quantity: | 100 µg |
| Target: | SPTA1 |
| Binding Specificity: | AA 356-475 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This SPTA1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Coating (Coat), Staining Methods (StM) |

Product Details

| | |
|---------------|--|
| Immunogen: | Recombinant human SPTA fragment (around aa356-475) (exact sequence is proprietary) |
| Clone: | SPTA1-1832 |
| Isotype: | IgG2b kappa |
| Purification: | Purified by Protein A/G |

Target Details

| | |
|-------------------|--|
| Target: | SPTA1 |
| Alternative Name: | SPTA1 (SPTA1 Products) |
| Background: | Spectrin is an actin crosslinking and molecular scaffold protein that links the plasma |

Target Details

membrane to the actin cytoskeleton, and functions in the determination of cell shape, arrangement of transmembrane proteins, and organization of organelles. Spectrins function as membrane organizers and stabilizers, composed of non-homologous) 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.

Molecular Weight: 240kDa

Gene ID: 6708

UniProt: [P02549](#)

Pathways: [Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: Positive Control: K562, HeLa, Jurkat cells. Placenta or Tonsil.
Known Application: ELISA (Use Ab at 2-4 µg/mL for coating) (Order Ab without BSA), Western Blot (0.5-2 µg/mL). Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

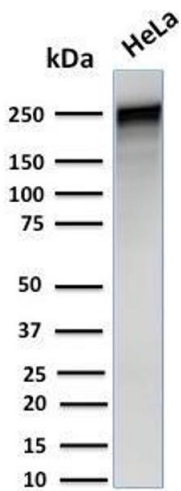
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

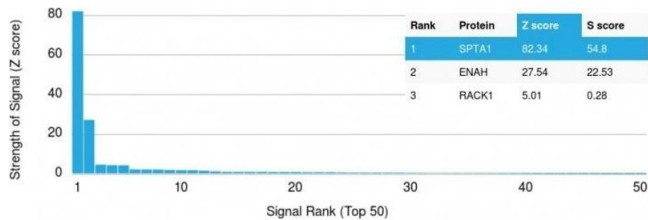
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



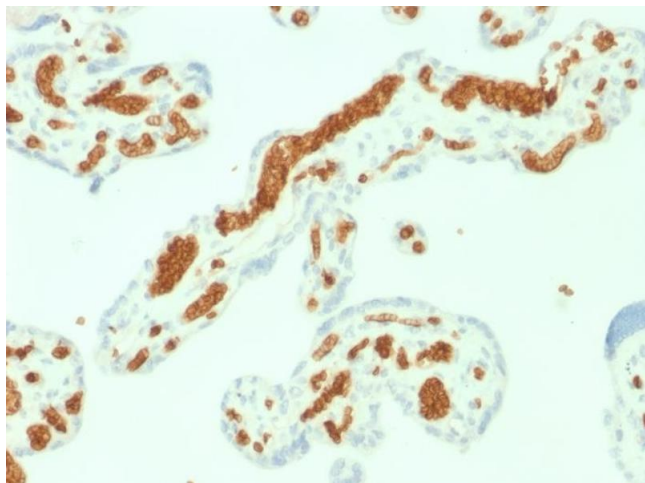
Western Blotting

Image 1. Western Blot Analysis of Human HeLa cell lysate using Spectrin alpha 1 Mouse Monoclonal Antibody (SPTA1/1832).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Spectrin, alpha 1 Mouse Monoclonal Antibody (SPTA1/1832) 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 (SDs) 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 SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to 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.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Placenta stained with Spectrin alpha 1 (SPTA1) Mouse Monoclonal Antibody (SPTA1/1832).

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6940644.