

Datasheet for ABIN6940647

anti-SPTAN1 antibody (AA 2351-2475)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	SPTAN1
Binding Specificity:	AA 2351-2475
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SPTAN1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment of human SPTAN1 protein (around aa 2351-2475) (exact sequence is proprietary)
Clone:	SPTAN1-3351
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

Target Details

Target:	SPTAN1
Alternative Name:	SPTAN1 (SPTAN1 Products)
Background:	Spectrin, an actin binding protein that is a major component of the cytoskeletal superstructure

Target Details

of the erythrocyte plasma membrane, is essential in determining the properties of the membrane including its shape and deformability. Spectrins function as membrane organizers and stabilizers, composed of nonhomologous α and β chains, which aggregate side-to-side in an antiparallel fashion to form dimers, tetramers, and higher polymers. Spectrin I and spectrin II 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. Activation of calpain results in the breakdown of spectrin II, a neuronal cytoskeleton protein.

Molecular Weight: 240kDa

Gene ID: 6709

UniProt: [Q13813](#)

Pathways: [Caspase Cascade in Apoptosis](#), [Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: Positive Control: Human colon or kidney tissues (IHC).
Known Application: Immunohistochemistry (Formalin-fixed) (1-2 μ g/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 μ g/mL

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

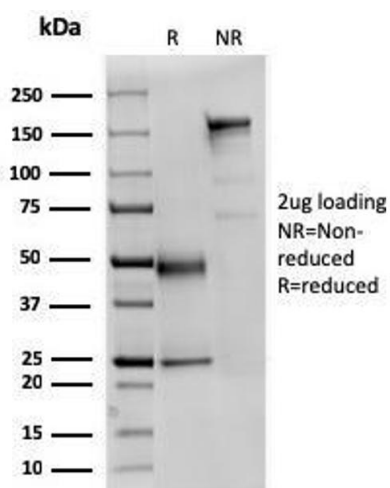
Preservative: Sodium azide

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

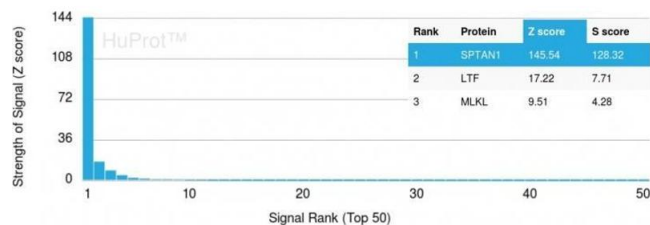
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



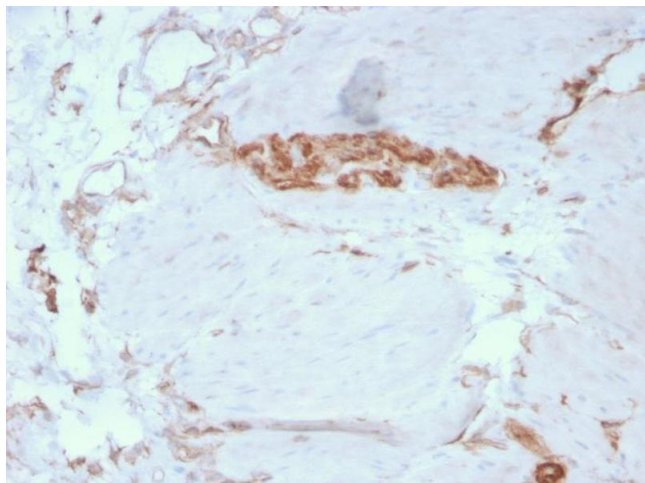
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Fodrin Mouse Monoclonal Antibody (SPTAN1/3351). Confirmation of Purity and Integrity of Antibody.



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Fodrin Mouse Monoclonal Antibody (SPTAN1/3351). 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 Colon stained with Fodrin Mouse Monoclonal Antibody (SPTAN1/3351).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6940647.