

SPT13 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5504c

Specification

SPT13 Antibody (Center) - Product Information

| | |
|-------------------|-----------------------------|
| Application | WB, IHC-P, FC,E |
| Primary Accession | O96N96 |
| Other Accession | NP_694568.1 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 74820 |
| Antigen Region | 204-232 |

SPT13 Antibody (Center) - Additional Information

Gene ID 221178

Other Names

Spermatogenesis-associated protein 13, APC-stimulated guanine nucleotide exchange factor 2, Asef2, SPATA13

Target/Specificity

This SPT13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 204-232 amino acids from the Central region of human SPT13.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SPT13 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SPT13 Antibody (Center) - Protein Information

Name SPATA13 {ECO:0000303|PubMed:28397838, ECO:0000312|HGNC:HGNC:23222}

Function Acts as a guanine nucleotide exchange factor (GEF) for RHOA, RAC1 and CDC42 GTPases. Regulates cell migration and adhesion assembly and disassembly through a RAC1, PI3K, RHOA and AKT1-dependent mechanism. Increases both RAC1 and CDC42 activity, but decreases the amount of active RHOA. Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Involved in tumor angiogenesis and may play a role in intestinal adenoma formation and tumor progression.

Cellular Location

Cytoplasm. Cell projection, filopodium. Cell projection, lamellipodium. Cell projection, ruffle membrane Note=Accumulates in the lamellipodium and ruffle membrane in response to hepatocyte growth factor (HGF) treatment

Tissue Location

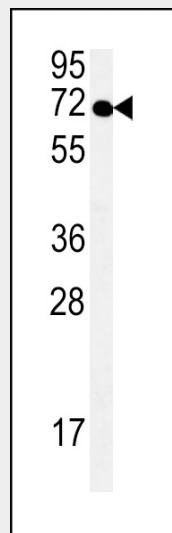
Expressed at high levels in the placenta, spleen and kidney, at moderate levels in lung, small intestine, liver, brain and heart, and at low levels in skeletal muscle. Expression is aberrantly enhanced in most colorectal tumors

SPT13 Antibody (Center) - Protocols

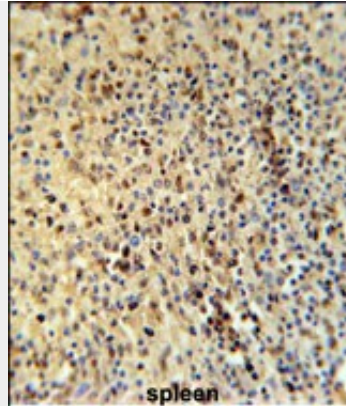
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

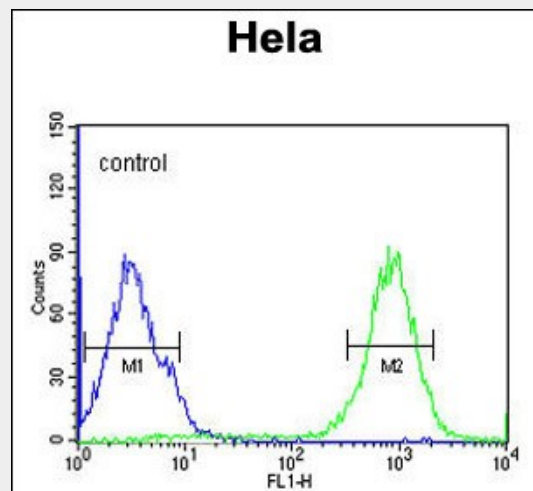
SPT13 Antibody (Center) - Images



SPT13 Antibody (Center) (Cat.#AP5504c) western blot analysis in Hela cell line lysates (35ug/lane). This demonstrates the SPT13 antibody detected the SPT13 protein (arrow).



SPT13 Antibody (Center) (Cat. #AP5504c) immunohistochemistry analysis in formalin fixed and paraffin embedded human spleen tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SPT13 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



SPT13 Antibody (Center) (Cat. #AP5504c) flow cytometric analysis of HeLa cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

SPT13 Antibody (Center) - Background

The function of SPT13 remains unknown.

SPT13 Antibody (Center) - References

Ding, H., et al. Stroke 41(1):177-180(2010)
 Bristow, J.M., et al. J. Cell. Sci. 122 (PT 24), 4535-4546 (2009)
 Sagara, M., et al. Oncogene 28(10):1357-1365(2009)