10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# SPT13 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5504c

## Product Information

| | |
|---|---|
| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | Q96N96 |
| **Other Accession** | NP_694568.1 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB27015 |
| **Calculated MW** | 74820 |
| **Antigen Region** | 204-232 |

## 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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **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. |

## 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. Cell projection, podosome {ECO:0000250\|UniProtKB:Q5DU57}. Note=Accumulates in the lamellipodium and ruffle membrane in response to hepatocyte growth factor (HGF) treatment. Localized to the core of myotube podosomes (By similarity). {ECO:0000250\|UniProtKB:Q5DU57} |
| **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 |

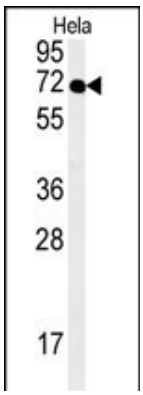
## Background

The function of SPT13 remains unknown.

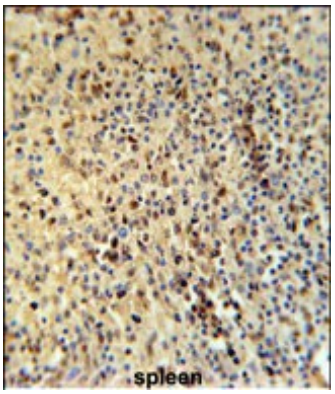
## References

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)

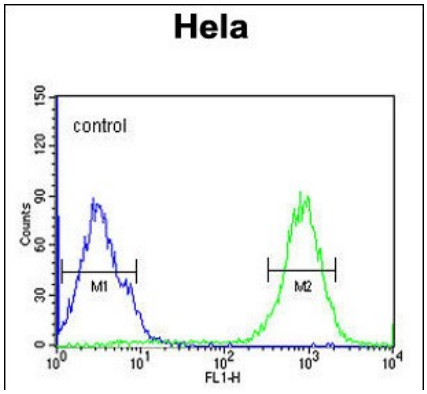
## Images




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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.